COMMON NAMES AND LATIN SYNONYMS FOR HUMULUS LUPULUS SEX FEMALE

BETIGUERA

BINE

HOBLON

HOMBRECILLO

HOP

HOP VINE

HOPFENS

HOPS

HOUBLOW

LUPIO

LUPULO

RAZAK

VIDARRIA

ETHNOMEDICAL INFORMATION ON HUMULUS LUPULUS

HUMULUS LUPULUS (CANNABACEAE) DRIED AERIAL PARTS ENGLAND

USED TO INDUCE SLEEP. STUFFED INTO PILLOWS.

PLANT * INHALATION * HUMAN ADULT * T09858

HUMULUS LUPULUS (CANNABACEAE) DRIED BUDS ITALY

USED FOR GASTRONOMIC PURPOSES.

BUDS * ORAL * HUMAN ADULT * T16715

HUMULUS LUPULUS (CANNABACEAE) ENTIRE PLANT CHINA

USED AS A SEDATIVE.

DECOCTION * ORAL * HUMAN ADULT * K29113

USED AS A MILD HYPNOTIC.

DECOCTION * ORAL * HUMAN ADULT * K29113

USED FOR TUBERCULOSIS.

DECOCTION * ORAL * HUMAN ADULT * K29113

USED FOR CANCER.

DECOCTION * ORAL * HUMAN ADULT * K29113

USED FOR EXTERNAL ULCERS.

DECOCTION * EXTERNAL * HUMAN ADULT * K29113

USED AS AN APHRODISIAC.

DECOCTION * ORAL * HUMAN ADULT * MALE * K29113

HUMULUS LUPULUS (CANNABACEAE) ENTIRE PLANT USA

USED AS A NERVINE

HOT H2O EXT * ORAL * HUMAN ADULT * T01253

ETHNOMEDICAL INFORMATION ON HUMULUS LUPULUS

HUMULUS LUPULUS (CANNABACEAE) ENTIRE PLANT USA

USED FOR DYSMENORRHEA

HOT H2O EXT * ORAL * HUMAN ADULT * FEMALE * T01253

HUMULUS LUPULUS (CANNABACEAE) FLOWERING TOPS ITALY

USED FOR FRAIL AND LYMPHATIC CHILDREN.

INFUSION * ORAL * HUMAN ADULT * T16136

HUMULUS LUPULUS (CANNABACEAE) FLOWERS USA

USED AS A SEDATIVE

HOT H2O EXT * ORAL * HUMAN ADULT * L00715

HUMULUS LUPULUS (CANNABACEAE) FRUIT USA

USED AS A SEDATIVE

PLANT * SMOKING * HUMAN ADULT * K04641

HUMULUS LUPULUS (CANNABACEAE) DRIED FRUIT EUROPE

USED TO PROMOTE SLEEP.

H2O EXT * ORAL * HUMAN ADULT * N12648

HUMULUS LUPULUS (CANNABACEAE) DRIED FRUIT IRAN

USED AS AN ANTIPYRETIC.

INFUSION * ORAL * HUMAN ADULT * I00004

APPLIED IN JOINT PAIN.

INFUSION * EXTERNAL * HUMAN ADULT * I00004

USED AS A HYPNOTIC.

POWDER * ORAL * HUMAN ADULT * I00004

USED AS A SEDATIVE.

POWDER * ORAL * HUMAN ADULT * I00004

USED AS A HYPNOTIC.

INFUSION * ORAL * HUMAN ADULT * I00004

USED FOR ITS TONIC EFFECT.

INFUSION * ORAL * HUMAN ADULT * I00004

HUMULUS LUPULUS (CANNABACEAE) DRIED FRUIT IRAN

USED IN MIGRAINE.
INFUSION * ORAL * HUMAN ADULT * I00004

USED AS A BLOOD RECTIFIER.
INFUSION * ORAL * HUMAN ADULT * I00004

USED IN ANEMIA.
INFUSION * ORAL * HUMAN ADULT * I00004

USED IN ANEMIC YOUNG WOMEN.
INFUSION * ORAL * HUMAN ADULT * FEMALE * I00004

USED AS A CIRCULATION STIMULANT.
INFUSION * ORAL * HUMAN ADULT * I00004

USED AS AN ANTHELMINTIC.
INFUSION * ORAL * HUMAN ADULT * I00004

USED AS A VERMIFUGE.
INFUSION * ORAL * HUMAN ADULT * I00004

APPLIED ON COLD TUMORS.
INFUSION * EXTERNAL * HUMAN ADULT * I00004

USED IN ABDOMINAL CRAMPS.
INFUSION * ORAL * HUMAN ADULT * I00004

HUMULUS LUPULUS (CANNABACEAE) DRIED FRUIT IRAN

USED IN RACHTISM.
INFUSION * ORAL * HUMAN ADULT * I00004

USED IN DARTAR.
INFUSION * EXTERNAL * HUMAN ADULT * I00004

USED TO REDUCE LYMPHATIC NODE INFLAMMATION.
INFUSION * ORAL * HUMAN ADULT * I00004

USED IN INFLAMMATORY CONDITIONS.
INFUSION * ORAL * HUMAN ADULT * I00004

USED IN GOUT.
INFUSION * ORAL * HUMAN ADULT * I00004

APPLIED ON GANGRENOUS WOUNDS.
INFUSION * EXTERNAL * HUMAN ADULT * I00004

USED IN SCORBUTIC PATIENTS.
INFUSION * ORAL * HUMAN ADULT * I00004

USED IN DIARRHEA.
INFUSION * ORAL * HUMAN ADULT * I00004

USED AS A DIGESTANT.
INFUSION * ORAL * HUMAN ADULT * I00004

USED AS A DIURETIC.
INFUSION * ORAL * HUMAN ADULT * I00004

USED AS A DIAPHORETIC.
INFUSION * ORAL * HUMAN ADULT * I00004

USED IN EDEMA.
INFUSION * ORAL * HUMAN ADULT * I00004

USED IN JAUNDICE.
INFUSION * ORAL * HUMAN ADULT * I00004

HUMULUS LUPULUS (CANNABACEAE) DRIED FRUIT IRAN

USED IN DERMATITIS.

INFUSION * EXTERNAL * HUMAN ADULT * I00004

USED IN DYSMENORRHEA.

INFUSION * ORAL * HUMAN ADULT * FEMALE * I00004

HUMULUS LUPULUS (CANNABACEAE) DRIED FRUIT ROUMANIA

USED FOR LEUCORRHEA IN ROUMANIAN FOLKMEDICINE.

HOT H2O EXT * VAGINAL * HUMAN ADULT * FEMALE * T01325

HUMULUS LUPULUS (CANNABACEAE) DRIED FRUIT USA-WA

USED AS AN ABORTIFACIENT.

HOT H2O EXT * ORAL * HUMAN(PREGNANT) * T06138

HUMULUS LUPULUS (CANNABACEAE) GLAND(LEAF) USA

USED FOR INSOMNIA

FLUIDEXTRACT * ORAL * HUMAN ADULT * A05642

USED AS AN ANAPHRODISIAL

FLUIDEXTRACT * ORAL * HUMAN ADULT * MALE * A05642

HUMULUS LUPULUS (CANNABACEAE) DRIED INFLORESCENCE

USED AS A SEDATIVE.

HOT H2O EXT * ORAL * HUMAN ADULT * T14395

USED AS AN ANTIAPHRODISIAC.

T14395

USED FOR GASTROINTESTINAL TROUBLES.

T14395

ETHNOMEDICAL INFORMATION ON HUMULUS LUPULUS

HUMULUS LUPULUS (CANNABACEAE) DRIED INFLORESCENCE ITALY

USED AS A SEDATIVE.

INFUSION * ORAL * HUMAN ADULT * T16715

USED FOR INFLAMMATIONS.

HOT H2O EXT * ROUTE NOT GIVEN * HUMAN ADULT * M17807

HUMULUS LUPULUS (CANNABACEAE) DRIED INFLORESCENCE USA

USED AS A TONIC.

HOT H2O EXT * ORAL * HUMAN ADULT * W03968

USED AS A FEBRIFUGE. STEEP A TEASPOON OF FLOWERS IN A CUP OF BOILING WATER. COOL, DRINK 1 CUP A DAY.

HOT H2O EXT * ORAL * HUMAN ADULT * W03968

USED AS PILLOWS STUFFED WITH DRIED FLOWERS TO INDUCE SLEEP.

FLOWERS * INHALATION * HUMAN ADULT * W03968

USED FOR SEDATIVE OR HYPNOTIC EFFECT. INDUCES SLEEP, CALMS, RELIEVES PAIN, BUT NOT ALWAYS RELIABLE. STEEP A TEASPOON OF FLOWERS IN A CUP OF BOILING WATER. COOL, DRINK 1 CUP.

HOT H2O EXT * ORAL * HUMAN ADULT * W03968

USED AS AN ANTHELMINIC. STEEP A TEASPOON OF FLOWERS IN A CUP OF WATER. COOL, DRINK 1 CUP A DAY.

HOT H2O EXT * ORAL * HUMAN ADULT * W03968

USED IN AN OINTMENT FOR SKIN IRRITATION AND ITCHING. BOIL 2 PARTS DATURA STRAMONIUM LEAVES AND 1 PART HOPS IN LARD.

HOT H2O EXT * EXTERNAL * HUMAN ADULT * W03968 * EFFECTS DESCRIBED ARE FROM A MULTI-COMPONENT RX.

USED AS AN EMOLLIENT FOR SKIN IRRITATION AND ITCHING, AND FOR BRUISES.

HOT H2O EXT * EXTERNAL * HUMAN ADULT * W03968

USED AS AN ANTILITHIC. STEEP A TEASPOON OF FLOWERS IN A CUP OF BOILING WATER. COOL, DRINK 1 CUP A DAY.

HOT H2O EXT * ORAL * HUMAN ADULT * W03968

HUMULUS LUPULUS (CANNABACEAE) LEAF

USED TO TREAT DIABETES.

TYPE EXT NOT STATED * ORAL * HUMAN ADULT * J13964

ETHNOMEDICAL INFORMATION ON HUMULUS LUPULUS

HUMULUS LUPULUS (CANNABACEAE) DRIED LEAF EUROPE

USED FOR DIABETES MELLITUS.

DECOCTION * ORAL * HUMAN ADULT * M27518

HUMULUS LUPULUS (CANNABACEAE) FRESH LEAF IRAN

WHOLE LEAF IS PLACED IN BOILING WATER FOR 10 MINUTES AND THEN PLACED ON THE JOINTS TO REDUCE PAIN.

LEAF * EXTERNAL * HUMAN ADULT * I00004

USED AS A BLOOD RECTIFIER.

DECOCTION * ORAL * HUMAN ADULT * I00004

WHOLE LEAF IN PLACED IN BOILING WATER FOR 10 MINUTES AND THEN PLACED ON GANGRENOUS WOUNDS FOR HEALING.

LEAF * EXTERNAL * HUMAN ADULT * I00004

USED AS A DIURETIC.

DECOCTION * ORAL * HUMAN ADULT * I00004

HUMULUS LUPULUS (CANNABACEAE) PART NOT SPECIFIED USA

USED AS AN ABORTIVE

HOT H2O EXT * ORAL * HUMAN(PREGNANT) * A04603

USED AS AN ABORTIVE

TYPE EXT NOT STATED * ROUTE NOT GIVEN * HUMAN(PREGNANT) * A04603

DECOCT WITH CEDAR SPROUTS AND BEARBERRY AS AN ABORTIFACIENT

HOT H2O EXT * ORAL * HUMAN(PREGNANT) * A05549 * EFFECTS DESCRIBED ARE FROM A MULTI-COMPONENT RX.

HUMULUS LUPULUS (CANNABACEAE) DRIED ROOT IRAN

USED AS A BLOOD RECTIFIER.

DECOCTION * ORAL * HUMAN ADULT * I00004

ETHNOMEDICAL INFORMATION ON HUMULUS LUPULUS

HUMULUS LUPULUS (CANNABACEAE) DRIED ROOT IRAN

USED AS A DIURETIC.

DECOCTION * ORAL * HUMAN ADULT * I00004

HUMULUS LUPULUS (CANNABACEAE) DRIED SHOOTS IRAN

YOUNG SHOOTS ARE DECOCTED IN BOILING WATER AND PLACED ON PAINFUL LESIONS.

SHOOTS * EXTERNAL * HUMAN ADULT * I00004

YOUNG SHOOTS ARE DECOCTED IN BOILING WATER AND PLACED ON GANGRENOUS WOUNDS FOR HEALING.

SHOOTS * EXTERNAL * HUMAN ADULT * I00004

HUMULUS LUPULUS (CANNABACEAE) DRIED STROBILUS GERMANY

USED FOR INSOMNIA.

H2O EXT * ORAL * HUMAN ADULT * K23856 * THESE DATA ARE FROM A REVIEW ARTICLE.

HUMULUS LUPULUS SEX FEMALE (CANNABACEAE) INFLORESCENCE ARGENTINA

USED AS A SEXUAL STIMULANT: INFUSE 20 GMS OF PLANT MATERIAL IN 1 L OF HOT WATER AND DRINK.

HOT H2O EXT * ORAL * HUMAN ADULT * MALE * W01322

USED AS A DIURETIC: INFUSE 20 GMS OF PLANT MATERIAL IN 1 L OF HOT WATER AND DRINK.

HOT H2O EXT * ORAL * HUMAN ADULT * W01322

BIOLOGICAL ACTIVITIES FOR EXTRACTS OF HUMULUS LUPULUS

HUMULUS LUPULUS (CANNABACEAE) DRIED AERIAL PARTS SOUTH KOREA

TYROSINASE INHIBITION * MEOH(80%) * CONC USED 100.0 MCG/ML * INACTIVE * J16249 *

CYCLOOXYGENASE INHIBITION * MEOH EXT * CONC USED 100.0 MCG/ML * EQUIVOCAL * L24543 *

HUMULUS LUPULUS (CANNABACEAE) DRIED BRACTS

TOXIC EFFECT(GENERAL) * CHROMATOGRAPHIC FRACTION * RAT * INTRAGASTRIC * DOSE 5.0 GM/KG * INACTIVE * L30254 * ACUTE DOSING STUDY

SEE ARTICLE FOR OTHER TEST RESULTS.

TOXIC EFFECT(GENERAL) * CHROMATOGRAPHIC FRACTION * RAT * INTRAGASTRIC * DOSE 2.0 GM/KG * INACTIVE * L30254 * 90 DAY DOSING STUDY

SEE ARTICLE FOR OTHER TEST RESULTS.

HUMULUS LUPULUS (CANNABACEAE) DRIED BRACTS JAPAN(CULT)

ANTIADHESION EFFECT * ETOH(30%)EXT * AGAR PLATE * IC50 2.7 MCG/ML * ACTIVE * STREPTOCOCCUS MUTANS * L03035 * HIGH MOLECULAR WEIGHT POLYPHENOL FRACTION TESTED.

SEE ARTICLE FOR OTHER TEST RESULTS.

ANTIADHESION EFFECT * ETOH(30%)EXT * AGAR PLATE * IC50 5.7 MCG/ML * ACTIVE * STREPTOCOCCUS SOBRINUS * L03035 * HIGH MOLECULAR WEIGHT POLYPHENOL FRACTION TESTED.

SEE ARTICLE FOR OTHER TEST RESULTS.

GLUCOSYLTRANSFERASE INHIBITION * ETOH(30%)EXT * AGAR PLATE * CONC USED 0.1 MG/ML * ACTIVE * STREPTOCOCCUS MUTANS * L03035 * HIGH MOLECULAR WEIGHT POLYPHENOL FRACTION TESTED.

GLUCOSYLTRANSFERASE INHIBITION * ETOH(30%)EXT * CONC USED 0.1 MG/ML * ACTIVE * STREPTOCOCCUS SOBRINUS * L03035 * POLYPHENOL FRACTION TESTED.

HUMULUS LUPULUS (CANNABACEAE) ENTIRE PLANT

ANTIMYCOBACTERIAL ACTIVITY * ETOH(95%)EXT * AGAR PLATE * CONC USED NOT STATED * ACTIVE * MYCOBACTERIUM TUBERCULOSIS * A15179 * ACTIVITY IS LOST IN THE PRESENCE OF WHOLE BLOOD.

BIOLOGICAL ACTIVITIES FOR EXTRACTS OF HUMULUS LUPULUS

HUMULUS LUPULUS (CANNABACEAE) ENTIRE PLANT

ANTIBACTERIAL ACTIVITY * ETOH(95%)EXT * AGAR PLATE * CONC USED NOT STATED * ACTIVE * STAPHYLOCOCCUS AUREUS * A15179 *

ANTIBACTERIAL ACTIVITY * ETOH(95%)EXT * AGAR PLATE * CONC USED NOT STATED * ACTIVE * ESCHERICHIA COLI * A15179 *

ANTIMYCOBACTERIAL ACTIVITY * HOT H2O EXT * AGAR PLATE * CONC USED NOT STATED * ACTIVE * MYCOBACTERIUM TUBERCULOSIS * A15179 * ACTIVITY LOST IN PRESENCE OF WHOLE BLOOD.

ANTIBACTERIAL ACTIVITY * H2O EXT * AGAR PLATE * CONC USED NOT STATED * ACTIVE * STAPHYLOCOCCUS AUREUS * A15179 *

ANTIBACTERIAL ACTIVITY * H2O EXT * AGAR PLATE * CONC USED NOT STATED * INACTIVE * ESCHERICHIA COLI * A15179 *

HUMULUS LUPULUS (CANNABACEAE) DRIED ENTIRE PLANT

RADICAL SCAVENGING EFFECT * ETOH-H2O(1:1) EXT * CONC USED 5.0 MCG/ML * WEAK ACTIVITY * K21650 * VS.SUPEROXIDE ANION. ESTIMATED BY THE NEOTETRAZOLIUM METHOD.

HUMULUS LUPULUS (CANNABACEAE) DRIED ENTIRE PLANT GERMANY

ANTIBACTERIAL ACTIVITY * ETOH(95%)EXT * AGAR PLATE * CONC USED VAR INACTIVE * BACILLUS SUBTILIS * T06571 *

ANTIBACTERIAL ACTIVITY * ETOH(95%)EXT * AGAR PLATE * CONC USED VAR INACTIVE * STAPHYLOCOCCUS AUREUS * T06571 *

ANTIBACTERIAL ACTIVITY * ETOH(95%)EXT * AGAR PLATE * CONC USED VAR INACTIVE * BACILLUS GLOBIFER * T06571 *

ANTIBACTERIAL ACTIVITY * ETOH(95%)EXT * AGAR PLATE * CONC USED VAR INACTIVE * BACILLUS GLOBIFER (ERYTHROMYCIN-RESISTANT) * T06571 *

HUMULUS LUPULUS (CANNABACEAE) DRIED ENTIRE PLANT GERMANY

ANTIBACTERIAL ACTIVITY * ETOH(95%)EXT * AGAR PLATE * CONC USED VAR INACTIVE * BACILLUS MYCOIDES * T06571 *

ANTIBACTERIAL ACTIVITY * ETOH(95%)EXT * AGAR PLATE * CONC USED VAR INACTIVE * BACILLUS GLOBIFER (TETRACYCLINE RESISTANT) * T06571 *

ANTIBACTERIAL ACTIVITY * ETOH(95%)EXT * AGAR PLATE * CONC USED VAR INACTIVE * ESCHERICHIA COLI * T06571 *

ANTIBACTERIAL ACTIVITY * ETOH(95%)EXT * AGAR PLATE * CONC USED VAR INACTIVE * ESCHERICHIA COLI (STREPTOMYCIN RESISTANT) * T06571 *

ANTIBACTERIAL ACTIVITY * ETOH(95%)EXT * AGAR PLATE * CONC USED VAR INACTIVE * SERRATIA MARCESCENS * T06571 *

ANTIBACTERIAL ACTIVITY * ETOH(95%)EXT * AGAR PLATE * CONC USED VAR INACTIVE * PSEUDOMONAS AERUGINOSA * T06571 *

ANTIBACTERIAL ACTIVITY * ETOH(95%)EXT * AGAR PLATE * CONC USED VAR INACTIVE * PROTEUS VULGARIS * T06571 *

ANTIBACTERIAL ACTIVITY * ETOH(95%)EXT * AGAR PLATE * CONC USED VAR INACTIVE * PROTEUS MORGANII * T06571 *

ANTIBACTERIAL ACTIVITY * ETOH(95%)EXT * AGAR PLATE * CONC USED VAR INACTIVE * AEROBACTER AEROGENES * T06571 *

ANTIMYCOBACTERIAL ACTIVITY * ETOH(95%)EXT * AGAR PLATE * CONC USED VAR INACTIVE * MYCOBACTERIUM SMEGMATIS * T06571 *

ANTIMYCOBACTERIAL ACTIVITY * ETOH(95%)EXT * AGAR PLATE * CONC USED VAR INACTIVE * MYCOBACTERIUM PHLEI * T06571 *

BIOLOGICAL ACTIVITIES FOR EXTRACTS OF HUMULUS LUPULUS

HUMULUS LUPULUS (CANNABACEAE) DRIED ENTIRE PLANT GERMANY

ANTIYEAST ACTIVITY * ETOH(95%)EXT * AGAR PLATE * CONC USED VAR INACTIVE * KLOECKERA BREVIS * T06571 *

ANTIYEAST ACTIVITY * ETOH(95%)EXT * AGAR PLATE * CONC USED VAR INACTIVE * SACCHAROMYCES CEREVISIAE * T06571 *

ANTIFUNGAL ACTIVITY(PLANT PATHOGENS) * ETOH(95%)EXT * AGAR PLATE * CONC USED VAR INACTIVE * PENICILLIUM NOTATUM * T06571 *

ANTIFUNGAL ACTIVITY(PLANT PATHOGENS) * ETOH(95%)EXT * AGAR PLATE * CONC USED VAR INACTIVE * SCOPULARIOPSIS SPECIES * T06571 *

ANTIFUNGAL ACTIVITY(PLANT PATHOGENS) * ETOH(95%)EXT * AGAR PLATE * CONC USED VAR INACTIVE * FUSARIUM SOLANI * T06571 *

ANTIFUNGAL ACTIVITY(PLANT PATHOGENS) * ETOH(95%)EXT * AGAR PLATE * CONC USED VAR INACTIVE * FUSARIUM CULMORUM * T06571 *

PROPHAGE INDUCTION * ETOH(95%)EXT * AGAR PLATE * CONC USED VAR INACTIVE * BACTERIAL SPECIES NOT STATED * T06571 *

ASSAY SYSTEM IS INTENDED TO PREDICT FOR ANTITUMOR ACTIVITY.

BACTERIAL INHIBITION-INDUCTION-PHAGE INHIBITION * ETOH(95%)EXT * AGAR PLATE * CONC USED VAR INACTIVE * BACTERIAL SPECIES NOT STATED * T06571 *

ASSAY SYSTEM IS INTENDED TO PREDICT FOR ANTITUMOR ACTIVITY.

HUMULUS LUPULUS (CANNABACEAE) ESSENTIAL OIL

ANTIVIRAL ACTIVITY * ESSENTIAL OIL * CELL CULTURE * CONC USED NOT STATED * INACTIVE * SEVERAL VIRUSES * L25902 *

GLUTATHIONE-S-TRANSFERASE INDUCTION * ESSENTIAL OIL * MOUSE * INTRAGASTRIC * DOSE 30.0 MG/ANIMAL * ACTIVE * INTESTINE(SMALL) * M30046 * DOSE GIVEN EVERY 2 DAYS FOR A TOTAL OF 3 DOSES.

BIOLOGICAL ACTIVITIES FOR EXTRACTS OF HUMULUS LUPULUS

HUMULUS LUPULUS (CANNABACEAE) ESSENTIAL OIL

GLUTATHIONE-S-TRANSFERASE INDUCTION * ESSENTIAL OIL * MOUSE * INTRAGASTRIC * DOSE 30.0 MG/ANIMAL * ACTIVE * LIVER * M30046 * DOSE GIVEN EVERY 2 DAYS FOR A TOTAL OF 3 DOSES.

GLUTATHIONE-S-TRANSFERASE INDUCTION * ESSENTIAL OIL * MOUSE * INTRAGASTRIC * DOSE 30.0 MG/ANIMAL * INACTIVE * STOMACH * M30046 * DOSE GIVEN EVERY 2 DAYS FOR A TOTAL OF 3 DOSES.

HUMULUS LUPULUS (CANNABACEAE) ESSENTIAL OIL GERMANY

CNS DEPRESSANT ACTIVITY * ESSENTIAL OIL * PIGEON * NASOGASTRIC * DOSE NOT STATED * WEAK ACTIVITY * A15488 *

DATA INCOMPLETE - DERIVED FROM AN ABSTRACT.

HUMULUS LUPULUS (CANNABACEAE) DRIED FLOWERS

TRANQUILIZING EFFECT * TYPE EXT NOT STATED * HUMAN ADULT * ORAL * DOSE 375.0 MG/PERSON * ACTIVE * M24875 * 27 SUBJECTS WITH SLEEP DIFFICULTIES TOOK PREPARATIONS OF HUMULUS LUPULUS, MELISSA OFFICINALIS AND EITHER HIGH OR TRACK LEVELS OF VALERIAN. THE HIGH DOSE PREPARATION IS SAID TO BE HIGH IN SESQUITERPENES. SUBJECTS TOOK EACH DOSAGE LEVEL ON A SINGLE NIGHT IN A RANDOMIZED DOUBLE-BLIND CROSSOVER TRAIL. 44% REPORTED PERFECT SLEEP AND 89% REPORTED IMPROVED SLEEP WITH THE HIGH VALERIAN DOSAGE. NIGHTMARES AND OTHER SIDE EFFECTS WERE NOT SEEN.

DOSE EXPRESSED AS DRY WEIGHT OF PLANT.

CYTOTOXIC ACTIVITY * H2O EXT * CELL CULTURE * CONC USED 10.0% INACTIVE * HELA CELLS * T09507 *

ANTIVIRAL ACTIVITY * H2O EXT * CELL CULTURE * CONC USED 10.0% INACTIVE * VIRUS-HERPES TYPE 2 * T09507 *

ANTIVIRAL ACTIVITY * H2O EXT * CELL CULTURE * CONC USED 10.0% INACTIVE * VIRUS-INFLUENZA A2(MANHEIM 57) * T09507 *

ANTIVIRAL ACTIVITY * H2O EXT * CELL CULTURE * CONC USED 10.0% INACTIVE * VIRUS-VACCINIA * T09507 *

ANTIVIRAL ACTIVITY * H2O EXT * CELL CULTURE * CONC USED 10.0% INACTIVE * VIRUS-POLIOVIRUS II * T09507 *

BIOLOGICAL ACTIVITIES FOR EXTRACTS OF HUMULUS LUPULUS

HUMULUS LUPULUS (CANNABACEAE) FRUIT

ESTROGENIC EFFECT * ETOH(95%)EXT * MOUSE(INFANT) * FEMALE * SC * DOSE NOT STATED * ACTIVE * A04725 * EXTRACT "A" WAS FOUND TO CONTAIN 10,000 UNITS OF ACTIVITY PER GRAM EXTRACT "B" WAS FOUND TO CONTAIN 12,500 UNITS OF ACTIVITY PER GRAM ALLEN-DOISY ASSAY WAS USED

ESTROGENIC EFFECT * TYPE EXT NOT STATED * MOUSE(OVARIECTOMIZED) * FEMALE * SC * DOSE VAR ACTIVE * T06788 * ACTIVITY = 1-300 MCG 17-BETA-OESTRADIOL/GM

THESE DATA ARE FROM A REVIEW ARTICLE.

HUMULUS LUPULUS (CANNABACEAE) FRUIT CZECHOSLOVAKIA

ESTROGENIC EFFECT * ETOH(95%)EXT * RAT(OVARIECTOMIZED) * FEMALE * SC * DOSE NOT STATED * ACTIVE * A04667 * ESTROGENIC ACTIVITY = 1050-2000 MCG/KG PLANT

ESTROGENIC EFFECT * ETOH(95%)EXT * MOUSE(INFANT) * FEMALE * DOSE NOT STATED * ACTIVE * A04667 * ESTROGENIC ACTIVITY = 1050-2000 MCG/KG PLANT

ESTROGENIC EFFECT * ETOH(95%)EXT * MOUSE(INFANT) * FEMALE * SC * DOSE NOT STATED * ACTIVE * A04790 *

HUMULUS LUPULUS (CANNABACEAE) FRUIT GERMANY

ESTROGENIC EFFECT * H2O EXT * MOUSE(INFANT) * FEMALE * SC * DOSE NOT STATED * ACTIVE * A04876 *

SLEEP EFFECTS * HYDRO-ALCOHOLIC EXT * HUMAN ADULT * GIVEN TO BOTH SEXES * ORAL * DOSE VAR ACTIVE * L04287 * A MULTICENTER CLINICAL TRIAL INVOLVING 225 PATIENTS ASSESSED THE EFFECT OF A VALERIAN, HOPS & BALM COMBINATION ON SLEEPING DISORDERS DUE TO NERVOUS UNREST. AFTER 2 WEEKS OF TREATMENT, 80% OF SUBJECTS REPORTED SIGNIFICANT SUBJECTIVE AND OBJECTIVE IMPROVEMENTS IN THE ABILITY TO FALL ALSEEP, SLEEPING TIME AND A DECREASE IN ANXIETY.

EFFECTS DESCRIBED ARE FROM A MULTI-COMPONENT RX.

TOXIC EFFECT(GENERAL) * HYDRO-ALCOHOLIC EXT * HUMAN ADULT * GIVEN TO BOTH SEXES * ORAL * DOSE VAR INACTIVE * L04287 *

EFFECTS DESCRIBED ARE FROM A MULTI-COMPONENT RX.

BIOLOGICAL ACTIVITIES FOR EXTRACTS OF HUMULUS LUPULUS

HUMULUS LUPULUS (CANNABACEAE) FRUIT JAPAN

FEEDING DETERRENT(INSECT) * BENZENE EXT * DOSE 5.0% ACTIVE * SPODOPTERA LITURA,FEMALE * L02465 *

HUMULUS LUPULUS (CANNABACEAE) FRUIT SPAIN

ESTROGENIC EFFECT * TYPE EXT NOT STATED * MOUSE * FEMALE * SC * DOSE NOT STATED * INACTIVE * A05984 * SEVERAL VARIETIES OF HOPS TESTED

HUMULUS LUPULUS (CANNABACEAE) FRUIT USA

ESTROGENIC EFFECT * SAPONIFIABLE FRACTION * MOUSE(INFANT) * FEMALE * SC * DOSE 51.0 MG/KG * INACTIVE * A04877 *

ESTROGENIC EFFECT * ETHER EXT * MOUSE(INFANT) * FEMALE * SC * DOSE 30.0 MG/ANIMAL * INACTIVE * A04877 *

HUMULUS LUPULUS (CANNABACEAE) FRUIT USSR

ESTROGENIC EFFECT * TYPE EXT NOT STATED * MOUSE(INFANT) * FEMALE * SC * DOSE NOT STATED * WEAK ACTIVITY * A00381 *

ESTROGENIC EFFECT * ETOH(95%)EXT * MOUSE(INFANT) * FEMALE * SC * DOSE NOT STATED * ACTIVE * W01124 *

HUMULUS LUPULUS (CANNABACEAE) DRIED FRUIT

ESTROGENIC EFFECT * TYPE EXT NOT STATED * MOUSE(INFANT) * FEMALE * SC * DOSE NOT STATED * ACTIVE * W01848 *

THESE DATA ARE FROM A REVIEW ARTICLE.

HUMULUS LUPULUS (CANNABACEAE) DRIED FRUIT EUROPE

CNS DEPRESSANT ACTIVITY * ESSENTIAL OIL * MOUSE * IM * DOSE NOT STATED * ACTIVE * N12648 *

HUMULUS LUPULUS (CANNABACEAE) DRIED FRUIT JAPAN

ANTIEDEMA ACTIVITY * MEOH EXT * MOUSE * EXTERNAL * DOSE 2.0 MG/EAR * ACTIVE * K11173 * INHIBITION RATIO (IR) WAS 90.

VS.12-O-TETRADECANOYLPHORBOL-13-ACETATE(TPA)-INDUCED EAR INFLAMMATION.

BIOLOGICAL ACTIVITIES FOR EXTRACTS OF HUMULUS LUPULUS

HUMULUS LUPULUS (CANNABACEAE) DRIED FRUIT JAPAN

ANTIHYPERGLYCEMIC(ANTIDIABETIC) ACTIVITY * FRUIT * HUMAN ADULT * ORAL * DOSE NOT STATED * ACTIVE * M22017 *

DATA INCOMPLETE - DERIVED FROM AN ABSTRACT.

BIOLOGICAL ACTIVITY REPORTED HAS BEEN PATENTED.

ANTIHYPERGLYCEMIC(ANTIDIABETIC) ACTIVITY * TYPE EXT NOT STATED * HUMAN ADULT * ORAL * DOSE NOT STATED * ACTIVE * M22017 *

DATA INCOMPLETE - DERIVED FROM AN ABSTRACT.

BIOLOGICAL ACTIVITY REPORTED HAS BEEN PATENTED.

SUNSCREEN EFFECT * DECOCTION * HUMAN ADULT * EXTERNAL * CONC USED 0.5% ACTIVE * M31188 *

EFFECTS DESCRIBED ARE FROM A MULTI-COMPONENT RX.

DATA INCOMPLETE - DERIVED FROM AN ABSTRACT.

BIOLOGICAL ACTIVITY REPORTED HAS BEEN PATENTED.

SKIN PIGMENTATION EFFECT * DECOCTION * HUMAN ADULT * EXTERNAL * CONC USED 0.5% ACTIVE * M31188 * MIXTURE CONTAINING EXTRACT LIGHTENED SKIN.

EFFECTS DESCRIBED ARE FROM A MULTI-COMPONENT RX.

DATA INCOMPLETE - DERIVED FROM AN ABSTRACT.

BIOLOGICAL ACTIVITY REPORTED HAS BEEN PATENTED.

LUTEAL SUPPRESSANT EFFECT * CHROMATOGRAPHIC FRACTION * RAT * FEMALE * ROUTE NOT GIVEN * DOSE 5.0 MG/ANIMAL * ACTIVE * T09034 *

DATA INCOMPLETE - DERIVED FROM AN ABSTRACT.

ANTI-PREGNANT MARE SERUM GONADOTROPIN ACTIVITY * CHROMATOGRAPHIC FRACTION * RAT * FEMALE * ROUTE NOT GIVEN * DOSE 5.0 MG/ANIMAL * ACTIVE * T09034 *

DATA INCOMPLETE - DERIVED FROM AN ABSTRACT.

HUMULUS LUPULUS (CANNABACEAE) DRIED FRUIT ROUMANIA

ANTITRICHOMONAL ACTIVITY * TYPE EXT NOT STATED * BROTH CULTURE * CONC USED NOT STATED * ACTIVE * TRICHOMONAS VAGINALIS * T01325 *

DATA INCOMPLETE - DERIVED FROM AN ABSTRACT.

ANTHELMINTIC ACTIVITY * TYPE EXT NOT STATED * CONC USED NOT STATED * INACTIVE * ASCARIS SUILLA * T01325 *

DATA INCOMPLETE - DERIVED FROM AN ABSTRACT.

HUMULUS LUPULUS (CANNABACEAE) DRIED INFLORESCENCE

ANTI-PREGNANT MARE SERUM GONADOTROPIN ACTIVITY * H2O EXT * RAT * FEMALE * SC * DOSE 20-50 MG/ANIMAL * ACTIVE * T07805 *

ANTIYEAST ACTIVITY * ETOH-H2O(1:1) EXT * AGAR PLATE * CONC USED 333.0 MG/ML * INACTIVE * SACCHAROMYCES PASTORIANUS * T16238 *

DOSE EXPRESSED AS DRY WEIGHT OF PLANT.

ANTIYEAST ACTIVITY * ETOH-H2O(1:1) EXT * AGAR PLATE * CONC USED 333.0 MG/ML * INACTIVE * CANDIDA ALBICANS * T16238 *

DOSE EXPRESSED AS DRY WEIGHT OF PLANT.

ANTIFUNGAL ACTIVITY * ETOH-H2O(1:1) EXT * AGAR PLATE * CONC USED 333.0 MG/ML * ACTIVE * RHIZOPUS NIGRICANS * T16238 *

DOSE EXPRESSED AS DRY WEIGHT OF PLANT.

ANTIFUNGAL ACTIVITY * ETOH-H2O(1:1) EXT * AGAR PLATE * CONC USED 333.0 MG/ML * INACTIVE * ASPERGILLUS FUMIGATUS * T16238 *

DOSE EXPRESSED AS DRY WEIGHT OF PLANT.

ANTIFUNGAL ACTIVITY * ETOH-H2O(1:1) EXT * AGAR PLATE * CONC USED 333.0 MG/ML * INACTIVE * ASPERGILLUS NIGER * T16238 *

DOSE EXPRESSED AS DRY WEIGHT OF PLANT.

DOSE EXPRESSED AS DRY WEIGHT OF PLANT.

ANTIFUNGAL ACTIVITY * ETOH-H2O(1:1) EXT * AGAR PLATE * CONC USED 333.0 MG/ML * INACTIVE * PENICILLIUM DIGITATUM * T16238 *

DOSE EXPRESSED AS DRY WEIGHT OF PLANT.

ANTIFUNGAL ACTIVITY * ETOH-H2O(1:1) EXT * AGAR PLATE * CONC USED 333.0 MG/ML * INACTIVE * BOTRYTIS CINEREA * T16238 *

DOSE EXPRESSED AS DRY WEIGHT OF PLANT.

ANTIFUNGAL ACTIVITY * ETOH-H2O(1:1) EXT * AGAR PLATE * CONC USED 333.0 MG/ML * INACTIVE * TRICHOPHYTON MENTAGROPHYTES * T16238 *

DOSE EXPRESSED AS DRY WEIGHT OF PLANT.

HUMULUS LUPULUS (CANNABACEAE) DRIED INFLORESCENCE ITALY

ANTIBACTERIAL ACTIVITY * ETOH(80%)EXT * AGAR PLATE * CONC USED 250.0 MCG/ML * INACTIVE * BACILLUS SUBTILIS * L04038 *

ANTIBACTERIAL ACTIVITY * ETOH(80%)EXT * AGAR PLATE * CONC USED 250.0 MCG/ML * INACTIVE * STAPHYLOCOCCUS AUREUS * L04038 *

ANTIBACTERIAL ACTIVITY * ETOH(80%)EXT * AGAR PLATE * CONC USED 250.0 MCG/ML * INACTIVE * STREPTOCOCCUS HEMOLYTICUS * L04038 *

ANTIBACTERIAL ACTIVITY * ETOH(80%)EXT * AGAR PLATE * CONC USED 250.0 MCG/ML * INACTIVE * ESCHERICHIA COLI * L04038 *

ANTIBACTERIAL ACTIVITY * ETOH(80%)EXT * AGAR PLATE * CONC USED 250.0 MCG/ML * INACTIVE * SALMONELLA TYPHI * L04038 *

ANTIBACTERIAL ACTIVITY * ETOH(80%)EXT * AGAR PLATE * CONC USED 250.0 MCG/ML * INACTIVE * KLEBSIELLA PNEUMONIAE * L04038 *

ANTIBACTERIAL ACTIVITY * ETOH(80%)EXT * AGAR PLATE * CONC USED 250.0 MCG/ML * INACTIVE * PSEUDOMONAS AERUGINOSA * L04038 *

ANTIBACTERIAL ACTIVITY * ETOH(80%)EXT * AGAR PLATE * CONC USED 250.0 MCG/ML * INACTIVE * PROTEUS MIRABILIS * L04038 *

ANTIINFLAMMATORY ACTIVITY * ETOH(80%)EXT * RAT * MALE * GASTRIC INTUBATION * DOSE 100.0 MG/KG * INACTIVE * M17807 * 3% INHIBITION OF EDEMA.

VS.CARRAGEENAN-INDUCED PEDAL EDEMA.

HUMULUS LUPULUS (CANNABACEAE) DRIED LEAF EUROPE

ANTIHYPERGLYCEMIC(ANTIDIABETIC) ACTIVITY * PLANT * MOUSE * MALE * IN RATION * CONC USED 6.25 % OF DIET/INACTIVE * M27518 * DOSING FOR 28 DAYS.

VS.STREPTOZOTOCIN-INDUCED HYPERGLYCEMIA.

BIOLOGICAL ACTIVITIES FOR EXTRACTS OF HUMULUS LUPULUS

HUMULUS LUPULUS (CANNABACEAE) DRIED LEAF EUROPE

HYPOGLYCEMIC ACTIVITY * PLANT * MOUSE * MALE * IN RATION * CONC USED 6.25 % OF DIET/INACTIVE * M27518 * DOSING FOR 28 DAYS.

HUMULUS LUPULUS (CANNABACEAE) DRIED NECK

ALLERGENIC ACTIVITY * PLANT * HUMAN ADULT * EXTERNAL * FULL STRENGTH APPLICATION NOT STATED * ACTIVE * E02351 * A CASE OF A TWENTY NINE YEAR MAN WHO PREVIOUSLY HAD 3 EPISODES OF URTICARIA-ANGIODEMA AFTER PEANUTS, CHESTNUT AND BANANA INTAKE DEVELOPED URTICARIA OF THE HANDS.

SEE ARTICLE FOR OTHER TEST RESULTS.

HUMULUS LUPULUS (CANNABACEAE) PART NOT SPECIFIED

ANTIMYCOBACTERIAL ACTIVITY * ETOH(95%)EXT * BROTH CULTURE * CONC USED NOT STATED * ACTIVE * MYCOBACTERIUM TUBERCULOSIS H37RVTMC 102 * M27150 * THE EXTRACT WAS USED IN A DILUTION OF 1:80.

HUMULUS LUPULUS (CANNABACEAE) PART NOT SPECIFIED CHINA

SUPEROXIDE SCAVENGING ACTIVITY INCREASE * H2O EXT * CONC USED 0.005 %/ACTIVE * L18427 * VS.NBT.

RADICAL SCAVENGING EFFECT * H2O EXT * CONC USED 0.025 %/ACTIVE * L18427 * VS.DPPH RADICALS.

HUMULUS LUPULUS (CANNABACEAE) PART NOT SPECIFIED USSR

ANTIBACTERIAL ACTIVITY * ETOH(95%)EXT * AGAR PLATE * CONC USED NOT STATED * ACTIVE * STAPHYLOCOCCUS AUREUS * W00311 *

DATA INCOMPLETE - DERIVED FROM AN ABSTRACT.

HUMULUS LUPULUS (CANNABACEAE) STROBILUS

CNS DEPRESSANT ACTIVITY * TYPE EXT NOT STATED * HUMAN ADULT * GIVEN TO BOTH SEXES * ORAL * DOSE VARIABLE NOT STATED * ACTIVE * E02310 * A REVIEW OF DRUGS USED TO TREAT INSOMNIA IN THE ELDERLY.

SEE ARTICLE FOR OTHER TEST RESULTS.

THESE DATA ARE FROM A REVIEW ARTICLE.

ANTIPYRETIC ACTIVITY * MEOH-H2O(1:1) EXT * MOUSE * MALE * INTRAGASTRIC * DOSE 500.0 MG/KG * ACTIVE * L30189 * EFFECT WAS ANTAGONIZED BY MELATONIN.

SEE ARTICLE FOR OTHER TEST RESULTS.

BIOLOGICAL ACTIVITIES FOR EXTRACTS OF HUMULUS LUPULUS

HUMULUS LUPULUS (CANNABACEAE) STROBILUS CANADA

ANTIBACTERIAL ACTIVITY * TYPE EXT NOT STATED * AGAR PLATE * CONC USED NOT STATED * ACTIVE * BACTERIAL SPECIES NOT STATED * K25596 * ORAL CARE COMPNS. HOP ACIDS OR THEIR SALTS ARE EFFECTIVE IN INHIBITING GRAM POS. BACTERIA WHICH CAN CAUSE PLAQUE OR PERIODONTAL DISEASE. A REPRESENTATIVE COMPN. IS A TOOTHPASTE CONTG. TETRAHYDROISOHUMULONE.

DATA INCOMPLETE - DERIVED FROM AN ABSTRACT.

BIOLOGICAL ACTIVITY REPORTED HAS BEEN PATENTED.

HUMULUS LUPULUS (CANNABACEAE) STROBILUS JAPAN

ELASTASE INHIBITION * ETOH-H2O(1:1) EXT * CONC USED NOT STATED * ACTIVE * L17332 *

DATA INCOMPLETE - DERIVED FROM AN ABSTRACT.

BIOLOGICAL ACTIVITY REPORTED HAS BEEN PATENTED.

HUMULUS LUPULUS (CANNABACEAE) STROBILUS POLAND

ANTIOXIDANT ACTIVITY * MEOH EXT * CONC USED NOT STATED * ACTIVE * L18878 *

DATA INCOMPLETE - DERIVED FROM AN ABSTRACT.

ANTIOXIDANT ACTIVITY * H2O EXT * CONC USED NOT STATED * ACTIVE * L18878 *

DATA INCOMPLETE - DERIVED FROM AN ABSTRACT.

HUMULUS LUPULUS (CANNABACEAE) COMMERCIAL SAMPLE OF STROBILUS

MISCELLANEOUS EFFECTS * HYDRO-ALCOHOLIC EXT * HUMAN ADULT * GIVEN TO BOTH SEXES * ORAL * DOSE VAR ACTIVE * E01719 * THE AIM OF THE STUDY WAS TO DEMONSTRATE COMPETITION BETWEEN CAFFEINE AND A FIXED VALERIAN/HOP EXTRACT COMBINATION (ZE91019) BY THE CENTRAL ADENOSINE MECHANISM. EEG WAS USED TO DESCRIBE THE ACTION OF CAFFEINE ON THE CENTRAL NERVOUS SYSTEM AFTER ORAL ADMINISTRATION (200 MG) IN HEALTHY VOLUNTEERS. IN ADDITION TO CAFFEINE, THE VOLUNTEERS (16 IN EACH GROUP) RECEIVED EITHER PLACEBO OR VERUM (2 AND 6 TABLETS CONTAINING THE VALERIAN/HOP EXTRACT). THE EEG RESPONSES WERE RECORDED EVERY 30 MIN THEREAFTER. THE VERUM MEDICATION WAS CAPABLE OF REDUCING (2 TABLETS) OR INHIBITING (6 TABLETS) THE AROUSAL INDUCED BY CAFFEINE. THIS PHARMACODYNAMIC ACTION WAS OBSERVED 60 MINUTES AFTER ORAL ADMINISTRATION, INDICATING NOT ONLY COMPETITION BETWEEN THE ANTAGONIST CAFFEINE AND THE PARTIAL AGONIST, I.E. THE VALERIAN/HOP EXTRACT BUT ALSO BIO-AVAILABILITY OF THE COMPOUNDS RESPONSIBLE FOR THE AGONISTIC ACTION. IN CONCLUSION, THE VALERIAN/HOP EXTRACT ACTS VIA A CENTRAL ADENOSINE MECHANISM WHICH IS POSSIBLY THE REASON FOR ITS SLEEP-INDUCING AND MAINTAINING ACTIVITY.

EFFECTS DESCRIBED ARE FROM A MULTI-COMPONENT RX.

BIOLOGICAL ACTIVITIES FOR EXTRACTS OF HUMULUS LUPULUS

HUMULUS LUPULUS (CANNABACEAE) COMMERCIAL SAMPLE OF STROBILUS

RECEPTOR BINDING STIMULANT * ETOH(40%)EXT * CONC USED VAR ACTIVE * L26696 * THE BINDING OF VALERIAN, HOPS AND THEIR FIXED COMBINATION EXTRACT(ZE91019) ON 14 SUBTYPES OF FIVE CLASSES OF CENTRAL RECEPTORS WERE STUDIED.

EFFECTS DESCRIBED ARE FROM A MULTI-COMPONENT RX.

SEE ARTICLE FOR OTHER TEST RESULTS.

ANTIPROLIFERATION ACTIVITY * TYPE EXT NOT STATED * CELL CULTURE * CONC USED VAR %/WEAK ACTIVITY * CA-T47D * L29430 * VS. NEGATIVE CONTROL. CELLS WERE INCUBATED WITH EXTRACT FOR 48 HOURS, RESULTS EXPRESSED AS % INHIBITION OF GROWTH.

SEE ARTICLE FOR OTHER TEST RESULTS.

HUMULUS LUPULUS (CANNABACEAE) COMMERCIAL SAMPLE OF STROBILUS SWITZERLAND

HYPOTHERMIC ACTIVITY * TYPE EXT NOT STATED * MOUSE * IP * DOSE 250.0 MG/KG * ACTIVE * K27659 *

ANTICONVULSANT ACTIVITY * TYPE EXT NOT STATED * MOUSE * IP * DOSE 500.0 MG/KG * ACTIVE * K27659 *

VS.PENTYLENETETRAZOLE-INDUCED CONVULSIONS.

BARBITURATE POTENTIATION * TYPE EXT NOT STATED * MOUSE * IP * DOSE 250.0 MG/KG * ACTIVE * K27659 *

SPONTANEOUS ACTIVITY REDUCTION * TYPE EXT NOT STATED * MOUSE * IP * DOSE 100.0 MG/KG * ACTIVE * K27659 *

ANALGESIC ACTIVITY * TYPE EXT NOT STATED * MOUSE * IP * DOSE 100.0 MG/KG * ACTIVE * K27659 *

VS.HOT PLATE METHOD.

HUMULUS LUPULUS (CANNABACEAE) COMMERCIAL SAMPLE OF STROBILUS USA

NITRIC OXIDE SYNTHESIS INHIBITION * ETOAC EXT * CONC USED NOT STATED * ACTIVE * H32723 *

SEE ARTICLE FOR OTHER TEST RESULTS.

HUMULUS LUPULUS (CANNABACEAE) DRIED STROBILUS

MISCELLANEOUS EFFECTS * TYPE EXT NOT STATED * HUMAN ADULT * GIVEN TO BOTH SEXES * ORAL * DOSE 120.0 MG/DAY * ACTIVE * E00686 * AN INVESTIGATION TO OBJECTIFY THE PHARMACODYNAMIC EFFECTS OF DIFFERENT DOSAGES OF A COMMERCIALLY AVAILABLE PLANT EXTRACT MIXTURE OF VALERIAN AND HOPS BY MEANS OF THE QUANTITATIVE TOPOGRAPHICAL EEG (QEEG) IN HEALTHY YOUNG ADULTS IN COMPARISON TO PLACEBO. TWO DIFFERENT DOSAGES WERE APPLIED IN TWO SINGLE-BLIND, CROSS-OVER DESIGNED OBSERVATION TRIALS IN 12 HEALTHY VOLUNTEERS (1ST DOSAGE: 500 MG VALERIAN AND 120 MG HOPS, VERSUS PLACEBO, FIRST CLINICAL TRIAL; 2ND DOSAGE: 1500 MG VALERIAN AND 360 MG HOPS, VERSUS PLACEBO, SECOND CLINICAL TRIAL). QEEG WAS RECORDED BIPOLARLY FROM 17 SURFACE ELECTRODES ACCORDING TO THE 10:20 SYSTEM AND ANALYSED USING THE FAST FOURIER TRANSFORMATION PRIOR TO, 1, 2 AND 4 HOURS AFTER DRUG INTAKE IN THE RECORDING CONDITIONS EYES OPEN, EYES CLOSED AND UNDER MENTAL DEMAND. THE EEG-SPECTRA WERE CUT INTO SIX FREQUENCY BANDS. BOTH RESTING CONDITIONS (EYES OPEN AND EYES CLOSED) WERE ANALYSED TOGETHER. AFTER APPLICATION OF THE LOW DOSAGE QEEG POWER CHANGES REMAINED MORE OR LESS WITHIN PLACEBO RANGE FOLLOWING THE NORMAL CIRCADIAN RHYTHMICS, EXCEPT FOR A TENDENTIOUS REDUCTION OF ALPHA- AND BETA-POWER 4 H AFTER DRUG INTAKE. THE HIGH DOSAGE LED TO POWER INCREASES IN DELTA, DECREASES IN ALPHA AND A WEAK DECREASE IN BETA -POWER. UNDER MENTAL PERFORMANCE ONLY WEAK DIFFERENCES TO PLACEBO WERE SEEN WHICH ARE NOT DISCUSSED HERE. IN THE CPT (COMPLETION OF COMPLICATED ADDITIONS AND SUBTRACTIONS) THE CONCENTRATION AND PERFORMANCE CAPABILITY WERE HARDLY INFLUENCED. HOWEVER, A MINIMAL INCREASE OF MEAN ANSWER TIME AND MEAN OK TIME (TIME FOR CORRECT ANSWERS) WAS OBSERVED 4 HOURS AFTER INTAKE OF 2 TABLETS AND 1 HOUR AFTER 6 TABLETS OF VALERIAN AND HOPS MIXTURE WITH MORE PRONOUNCED CHANGES AFTER THE LOW DOSAGE RATHER THAN THE HIGH ONE.

EFFECTS DESCRIBED ARE FROM A MULTI-COMPONENT RX.

HUMULUS LUPULUS (CANNABACEAE) DRIED STROBILUS

MISCELLANEOUS EFFECTS * TYPE EXT NOT STATED * HUMAN ADULT * GIVEN TO BOTH SEXES * ORAL * DOSE 360.0 MG/DAY * ACTIVE * E00686 * AN INVESTIGATION TO OBJECTIFY THE PHARMACODYNAMIC EFFECTS OF DIFFERENT DOSAGES OF A COMMERCIALLY AVAILABLE PLANT EXTRACT MIXTURE OF VALERIAN AND HOPS BY MEANS OF THE QUANTITATIVE TOPOGRAPHICAL EEG (QEEG) IN HEALTHY YOUNG ADULTS IN COMPARISON TO PLACEBO. TWO DIFFERENT DOSAGES WERE APPLIED IN TWO SINGLE-BLIND, CROSS-OVER DESIGNED OBSERVATION TRIALS IN 12 HEALTHY VOLUNTEERS (1ST DOSAGE: 500 MG VALERIAN AND 120 MG HOPS, VERSUS PLACEBO, FIRST CLINICAL TRIAL; 2ND DOSAGE: 1500 MG VALERIAN AND 360 MG HOPS, VERSUS PLACEBO, SECOND CLINICAL TRIAL). QEEG WAS RECORDED BIPOLARLY FROM 17 SURFACE ELECTRODES ACCORDING TO THE 10:20 SYSTEM AND ANALYSED USING THE FAST FOURIER TRANSFORMATION PRIOR TO, 1, 2 AND 4 HOURS AFTER DRUG INTAKE IN THE RECORDING CONDITIONS EYES OPEN, EYES CLOSED AND UNDER MENTAL DEMAND. THE EEG-SPECTRA WERE CUT INTO SIX FREQUENCY BANDS. BOTH RESTING CONDITIONS (EYES OPEN AND EYES CLOSED) WERE ANALYSED TOGETHER. AFTER APPLICATION OF THE LOW DOSAGE QEEG POWER CHANGES REMAINED MORE OR LESS WITHIN PLACEBO RANGE FOLLOWING THE NORMAL CIRCADIAN RHYTHMICS, EXCEPT FOR A TENDENTIOUS REDUCTION OF ALPHA- AND BETA-POWER 4 H AFTER DRUG INTAKE. THE HIGH DOSAGE LED TO POWER INCREASES IN DELTA, DECREASES IN ALPHA AND A WEAK DECREASE IN BETA -POWER. UNDER MENTAL PERFORMANCE ONLY WEAK DIFFERENCES TO PLACEBO WERE SEEN WHICH ARE NOT DISCUSSED HERE. IN THE CPT (COMPLETION OF COMPLICATED ADDITIONS AND SUBTRACTIONS) THE CONCENTRATION AND PERFORMANCE CAPABILITY WERE HARDLY INFLUENCED. HOWEVER, A MINIMAL INCREASE OF MEAN ANSWER TIME AND MEAN OK TIME (TIME FOR CORRECT ANSWERS) WAS OBSERVED 4 HOURS AFTER INTAKE OF 2 TABLETS AND 1 HOUR AFTER 6 TABLETS OF VALERIAN AND HOPS MIXTURE WITH MORE PRONOUNCED CHANGES AFTER THE LOW DOSAGE RATHER THAN THE HIGH ONE.

EFFECTS DESCRIBED ARE FROM A MULTI-COMPONENT RX.

CNS DEPRESSANT ACTIVITY * TYPE EXT NOT STATED * HUMAN ADULT * GIVEN TO BOTH SEXES * ORAL * DOSE 120.0 MG/DAY * ACTIVE * E00687 * A PILOT STUDY WITH A FIXED EXTRACT COMBINATION ZE 91019 OF VALERIAN AND HOP WAS CONDUCTED IN 30 PATIENTS SUFFERING FROM MILD-MODERATE, NON-ORGANIC INSOMNIA. THE DIAGNOSIS WAS CONFIRMED BY POLYSOMNOGRAPHIC STANDARD EXAMINATIONS. THE PATIENTS WERE TREATED WITH 2 TABLETS IN THE EVENING. EACH TABLETCONTAINS 250 MG VALERIAN EXTRACT AND 60 MG HOP EXTRACT. A POLYSOMNOGRAPHIC RE-EXAMINATION AFTER 2 WEEKS OF TREATMENT REVEALED DECLINES IN THE SLEEP LATENCY AND THE WAKE TIME. AS A CONSEQUENCE THE SLEEP EFFICIENCY INCREASED. SLEEP STAGE 1 (S1) WAS REDUCED AND THE SLOW WAVE SLEEP INCREASED. IN ADDITION, THE PATIENTS JUDGED THEIR BEING REFRESHED IN THE MORNING BY ASSIGNING A RATING OF 1 TO 6. THEY REPORTED AN IMPROVEMENT AFTER 2 WEEKS OF TREATMENT. NO ADVERSE EVENTS WERE OBSERVED. BASED ON THESE FINDINGS A PIVOTAL STUDY CAN BE DESIGNED.

EFFECTS DESCRIBED ARE FROM A MULTI-COMPONENT RX.

SLEEP EFFECTS * TYPE EXT NOT STATED * HUMAN ADULT * GIVEN TO BOTH SEXES * ORAL * DOSE 30.0 MG/PERSON * ACTIVE * E01185 * IN 484 PATIENTS (MEAN AGE 49.5 YEARS; 63% FEMALE). ASSESSMENT OF SLEEP QUALITY AND SLEEP LATENCY REVEALED RELEVENT IMPROVEMENTS.

EFFECTS DESCRIBED ARE FROM A MULTI-COMPONENT RX.

DATA INCOMPLETE - DERIVED FROM AN ABSTRACT.

HUMULUS LUPULUS (CANNABACEAE) DRIED STROBILUS

MENOPAUSE SYMPTOMS RELIEF * TYPE EXT NOT STATED * HUMAN ADULT * FEMALE * ORAL * DOSE 100.0 MCG/DAY * ACTIVE * E01918 * A PROSPECTIVE, RANDOMIZED, DOUBLE-BLIND, PLACEBO CONTROLLED STUDY OVER 12 WEEKS WITH 67 MENOPAUSAL WOMEN, WHO WERE ADMINISTERED A HOP EXTRACT STANDARDIZED ON 8PN (100 OR 250 MCG). THE RESPONSES WERE DETERMINED BY MEANS OF A MODIFIED KUPPERMAN INDEX (KI) AND A PATIENTS' QUESTIONNAIRE. ALL GROUPS, INCLUDING PLACEBO, SHOWED A SIGNIFICANT REDUCTION OF THE KI, BOTH AFTER 6 AND 12 WEEKS. THE HOP EXTRACT AT 100 MCG 8PN WAS SIGNIFICANTLY SUPERIOR TO PLACEBO AFTER 6 WEEKS (P=0.023) BUT NOT AFTER 12 WEEKS (P=0.086). NO DOSE-RESPONSE RELATIONSHIP COULD BE ESTABLISHED, AS THE HIGHER DOSE (250 MCG) WAS LESS ACTIVE THAN THE LOWER DOSE, BOTH AFTER 6 AND 12 WEEKS. STILL, A TREND FOR A MORE RAPID DECREASE OF KI WAS NOTICED FOR BOTH ACTIVE GROUPS AS COMPARED WITH PLACEBO. IN PARTICULAR, THE DECREASE IN HOT FLUSH SCORE (ISOLATED FROM THE KI) WAS FOUND SIGNIFICANT FOR BOTH TREATMENT GROUPS AFTER 6 WEEKS (P<0.01) WITH RESPECT TO PLACEBO. RESULTS OF THE PATIENTS' QUESTIONNAIRE WERE CONSISTENT WITH THOSE OF THE KI, WITH THE MOST PRONOUNCED EFFECTS BEING OBSERVED FOR THE 100 MCG TREATMENT.

SEE ARTICLE FOR OTHER TEST RESULTS.

CNS DEPRESSANT ACTIVITY * HYDRO-ALCOHOLIC EXT * HUMAN ADULT * GIVEN TO BOTH SEXES * ORAL * DOSE 84.0 MG/DAY * ACTIVE * E01919 * A MULTICENTER, RANDOMIZED, PLACEBO-CONTROLLED,PARALLEL-GROUP STUDY CONDUCTED IN NINE SLEEP DISORDERS CENTERS THROUGHOUT THE U.S.A. A TOTAL OF 184 ADULTS WITH MILD INSOMNIA WERE INCLUDED IN TEH STUDY. THE FINDINGS SHOWED A MODEST HYPNOTIC EFFECT FOR A VALERIAN-HOPS COMBINATION AND DIPHENHYDRAMINE RELATIVE TO PLACEBO.

EFFECTS DESCRIBED ARE FROM A MULTI-COMPONENT RX.

SEE ARTICLE FOR OTHER TEST RESULTS.

CNS DEPRESSANT ACTIVITY * TYPE EXT NOT STATED * HUMAN ADULT * ORAL * DOSE 200.0 MG/DAY * ACTIVE * E02124 * tHE COMBINATIONB ACTS THROUGH A CENTRAL ADENOSINE MECHANISM.

EFFECTS DESCRIBED ARE FROM A MULTI-COMPONENT RX.

SEE ARTICLE FOR OTHER TEST RESULTS.

MENOPAUSE SYMPTOMS RELIEF * TYPE EXT NOT STATED * HUMAN ADULT * FEMALE * ORAL * DOSE VARIABLE NOT STATED * INACTIVE * E02259 * A REVIEW (121 REFERENCES) OF ALL COMPLEMENTARY AND ALTERNATIVE THERAPIES FOR CLIMACTERIC SYMPTOMS. CONCLUSION: INSUFFICIENT CLINICAL DATA TO SUPPORT THE USE.

SEE ARTICLE FOR OTHER TEST RESULTS.

THESE DATA ARE FROM A REVIEW ARTICLE.

ESTROGENIC EFFECT * TINCTURE * HUMAN ADULT * FEMALE * VAGINAL * CONC USED 1.0% ACTIVE * E02272 * STUDY IN 10 POST-MENOPAUSAL WOMEN. APPLICATION WAS DAILY FOR 30 DAYS. VAGINAL DRYNESS WAS IMPROVED.

EFFECTS DESCRIBED ARE FROM A MULTI-COMPONENT RX.

SEE ARTICLE FOR OTHER TEST RESULTS.

HUMULUS LUPULUS (CANNABACEAE) DRIED STROBILUS

MENOPAUSE SYMPTOMS RELIEF * TYPE EXT NOT STATED * HUMAN ADULT * FEMALE * ORAL * DOSE NOT GIVEN NOT STATED * . * E02285 * A REVIEW (16 REF.) OF THE EFFECT OF HOPS IN ALLEVIATING HOT FLASHES.

THESE DATA ARE FROM A REVIEW ARTICLE.

NITRIC OXIDE RELEASE INHIBITION * ETOAC SOLUBLE FRACTION * CELL CULTURE * CONC USED 25.0 MCG/ML * ACTIVE * MACROPHAGE CELL LINE RAW 264.7 * H31111 *

NITRIC OXIDE RELEASE INHIBITION * BUTANOL EXT * CELL CULTURE * CONC USED 50.0 MCG/ML * ACTIVE * H31111 *

NITRIC OXIDE RELEASE INHIBITION * ALKALOID FREE H2O EXTRACT * CONC USED 100.0 MCG/ML * EQUIVOCAL * H31111 *

ANALGESIC ACTIVITY * TYPE EXT NOT STATED * MOUSE * IP * DOSE 250.0 MG/KG * ACTIVE * J15371 *

DATA INCOMPLETE - DERIVED FROM AN ABSTRACT.

HYPOTHERMIC ACTIVITY * TYPE EXT NOT STATED * MOUSE * IP * DOSE 500.0 MG/KG * ACTIVE * J15371 *

DATA INCOMPLETE - DERIVED FROM AN ABSTRACT.

ANTICONVULSANT ACTIVITY * TYPE EXT NOT STATED * MOUSE * IP * DOSE 250.0 MG/KG * ACTIVE * J15371 *

DATA INCOMPLETE - DERIVED FROM AN ABSTRACT.

TRANQUILIZING EFFECT * TYPE EXT NOT STATED * MOUSE * IP * DOSE 250.0 MG/KG * ACTIVE * J15371 *

DATA INCOMPLETE - DERIVED FROM AN ABSTRACT.

BARBITURATE POTENTIATION * TYPE EXT NOT STATED * MOUSE * IP * DOSE 250.0 MG/KG * ACTIVE * J15371 *

DATA INCOMPLETE - DERIVED FROM AN ABSTRACT.

SPONTANEOUS ACTIVITY REDUCTION * TYPE EXT NOT STATED * MOUSE * IP * DOSE 250.0 MG/KG * ACTIVE * J15371 *

DATA INCOMPLETE - DERIVED FROM AN ABSTRACT.

ESTROGENIC EFFECT * TYPE EXT NOT STATED * RAT(OVARIECTOMIZED) * FEMALE * IN RATION * DOSE NOT STATED * ACTIVE * SERUM * J16511 *

DATA INCOMPLETE - DERIVED FROM AN ABSTRACT.

RECEPTOR BINDING(ESTROGEN) DECREASED * ETOH(95%)EXT * RAT * FEMALE * CONC USED NOT STATED * ACTIVE * UTERUS(UNSPEC.COND) * J16511 *

DATA INCOMPLETE - DERIVED FROM AN ABSTRACT.

HUMULUS LUPULUS (CANNABACEAE) DRIED STROBILUS

TOXIC EFFECT(GENERAL) * TYPE EXT NOT STATED * HUMAN ADULT * ORAL * DOSE NOT STATED * ACTIVE * K20205 * TAKEN IN COMBINATION WITH "SLEEP QIK".

MENOPAUSE SYMPTOMS RELIEF * TYPE EXT NOT STATED * HUMAN ADULT * FEMALE * DOSE NOT STATED * INACTIVE * L03971 * NO SCIENTIFIC EVIDENCE TO SUPPORT USE FOR THE TREATMENT OF MENOPAUSAL SYMPTOMS.

THESE DATA ARE FROM A REVIEW ARTICLE.

ALKALINE PHOSPHATASE STIMULATION * POLYPHENOLIC FRACTION * CELL CULTURE * CONC USED 1.0 MCG/ML * ACTIVE * L04448 * VS.HUMAN ENDOMETRIAL CELLS, ISHIKAWA VAR I.

ESTROGENIC EFFECT * POLYPHENOLIC FRACTION * CELL CULTURE * CONC USED 0.2 MCG/ML * ACTIVE * L14681 * IN ISHIKAWA CELLS.

ANTIOXIDANT ACTIVITY * MEOH EXT * CONC USED 1.0 MGM %/LITER * ACTIVE * L15248 * VS.2,2'-AZOBIS(2-AMIDINOPROPANE) DIHYDROCHLORIDE-INDUCED OXIDATION OF AN AQUEOUS-DISPERSION OF LINOLEIC ACID.

SEE ARTICLE FOR OTHER TEST RESULTS.

ADENOSINE A1 RECEPTOR AGONIST ACTIVITY * MEOH EXT * CONC USED NOT STATED * INACTIVE * L22410 * VS.CHO-HAI CELLS.

ANTIVIRAL ACTIVITY * CO2 EXTRACT * CELL CULTURE * IC50 8.6 MCG/ML * ACTIVE * VIRUS-CYTOMEGALOVIRUS * L25902 *

ANTIVIRAL ACTIVITY * CO2 EXTRACT * CELL CULTURE * IC50 29.0 MCG/ML * WEAK ACTIVITY * VIRUS-HEPATITIS B * L25902 *

ANTIVIRAL ACTIVITY * CO2 EXTRACT * CELL CULTURE * CONC USED NOT STATED * INACTIVE * SEVERAL VIRUSES * L25902 *

ESTROGENIC EFFECT * MEOH EXT * CONC USED VAR ACTIVE * L26318 *

SEE ARTICLE FOR OTHER TEST RESULTS.

GASTRIC SECRETORY STIMULATION * TYPE EXT NOT STATED * RAT * MALE * INTRAGASTRIC * DOSE 2.0 ML/KG * ACTIVE * L30186 * EFFECT BLOCKED BY ATROPINE IN RAT PYLORUS-LIGATED MODEL.

SEE ARTICLE FOR OTHER TEST RESULTS.

BIOLOGICAL ACTIVITIES FOR EXTRACTS OF HUMULUS LUPULUS

HUMULUS LUPULUS (CANNABACEAE) DRIED STROBILUS

ANTIINFLAMMATORY ACTIVITY * CO2 EXTRACT * MOUSE * MALE * INTRAGASTRIC * DOSE 1.25 MG/KG * INACTIVE * L30190 * VS.ZYMOSAN SWELLING.

SEE ARTICLE FOR OTHER TEST RESULTS.

CYCLOOXYGENASE 1 INHIBITION * CO2 EXTRACT * CONC USED 30.0 MCG/ML * INACTIVE * L30190 *

SEE ARTICLE FOR OTHER TEST RESULTS.

CYCLOOXYGENASE 2 INHIBITION * CO2 EXTRACT * CONC USED 25.0 MCG/ML * ACTIVE * L30190 *

SEE ARTICLE FOR OTHER TEST RESULTS.

ADENOSINE RECEPTOR ANTAGONIST * CELL CULTURE * VNS ACTIVE * L30251 * IN RAT CORTICAL NEURONS

SEE ARTICLE FOR OTHER TEST RESULTS.

ANTIALLERGENIC ACTIVITY * LYOPHILIZED EXTRACT * MOUSE * FEMALE * INTRAGASTRIC * DOSE 500.0 MG/KG * ACTIVE * L30256 * SEVEN DAY DOSING STUDY. VS COMPOUND 48/80 STIMULATED VASCULAR PERMEABILITY. EVANS BLUE LEAKAGE IN SKIN WAS MEASURED.

SEE ARTICLE FOR OTHER TEST RESULTS.

ANTIALLERGENIC ACTIVITY * LYOPHILIZED EXTRACT * MOUSE * FEMALE * IN RATION * DOSE 25.0 % OF DIET/ACTIVE * L30256 * VS. INHIBITION OF HISTAMINE RELEASE IN OVA-SENSITIED ANIMALS

SEE ARTICLE FOR OTHER TEST RESULTS.

ANTIOSTEOPOROSIS ACTIVITY * POWDER * RAT * FEMALE * IN RATION * DOSE 100 GM/KG * INACTIVE * L30342 * EFFECT OF EXERCISE AND/OR HOPS DIET ON VARIOUS PARAMETERS, INCLUDING BONE MINERAL DENSITY, UTERINE RELATIVE WEIGHT, CALCIUM (CA) INTAKE, FECAL CA, URINARY CA EXCRETION, NET CA ABSORPTION, PLASMA CA.

SEE ARTICLE FOR OTHER TEST RESULTS.

EPSTEIN-BARR VIRUS EARLY ANTIGEN ACTIVATION INHIBITION * ETOH(95%)EXT * CELL CULTURE * CONC USED 100.0 MCG/ML * ACTIVE * CELLS-RAJI * L32057 *

VS.12-O-TETRADECANOYLPHORBOL-13-ACETATE(TPA)-INDUCED EARLY ANTIGEN ACTIVATION.

SEE ARTICLE FOR OTHER TEST RESULTS.

HUMULUS LUPULUS (CANNABACEAE) DRIED STROBILUS BELGIUM

ANTIOXIDANT ACTIVITY * CO2 EXTRACT * CONC USED NOT STATED * ACTIVE * L20065 * INHIBITED LINOLEIC ACID OXIDATION.

DATA INCOMPLETE - DERIVED FROM AN ABSTRACT.

BIOLOGICAL ACTIVITIES FOR EXTRACTS OF HUMULUS LUPULUS

HUMULUS LUPULUS (CANNABACEAE) DRIED STROBILUS FINLAND

CALCIUM ION UPTAKE INHIBITION * PHENOLIC FRACTION * CELL CULTURE * CONC USED 20.0 MCG/ML * ACTIVE * CELLS-RAT-PITUITARY * L21468 *

HUMULUS LUPULUS (CANNABACEAE) DRIED STROBILUS GERMANY

CNS DEPRESSANT ACTIVITY * TYPE EXT NOT STATED * PIGEON * ROUTE NOT GIVEN * DOSE VAR INACTIVE * A15488 * FRACTION TESTED WAS FREE FROM HOP ACIDS.

DATA INCOMPLETE - DERIVED FROM AN ABSTRACT.

ASTRINGENT EFFECT * TYPE EXT NOT STATED * HUMAN ADULT * ROUTE NOT GIVEN * DOSE NOT STATED * ACTIVE * K23856 *

THESE DATA ARE FROM A REVIEW ARTICLE.

ANTIBACTERIAL ACTIVITY * TYPE EXT NOT STATED * HUMAN ADULT * ROUTE NOT GIVEN * DOSE NOT STATED * ACTIVE * K23856 * USED AS ANTISEPTIC.

THESE DATA ARE FROM A REVIEW ARTICLE.

TRANQUILIZING EFFECT * TYPE EXT NOT STATED * HUMAN ADULT * ROUTE NOT GIVEN * DOSE NOT STATED * ACTIVE * K23856 *

THESE DATA ARE FROM A REVIEW ARTICLE.

GABA RECEPTOR BLOCKING EFFECT * TYPE EXT NOT STATED * CONC USED 2.0 MCG/ML * ACTIVE * K23856 * A AND B RECEPTORS ASSAYED.

GLUTAMATE RECEPTOR BLOCKER * TYPE EXT NOT STATED * CONC USED 2.0 MCG/ML * ACTIVE * K23856 * QUISQUALATE RECEPTOR ASSAYED.

GLUTAMATE RECEPTOR BLOCKER * TYPE EXT NOT STATED * CONC USED 2.0 MCG/ML * ACTIVE * K23856 * KAINATE RECEPTOR ASSAYED.

CHOLECYSTOKININ RECEPTOR BINDING EFFECT * TYPE EXT NOT STATED * CONC USED 2.0 MCG/ML * ACTIVE * K23856 * A AND B RECEPTROS ASSAYED.

GLUTAMATE RECEPTOR BLOCKER * TYPE EXT NOT STATED * CONC USED 2.0 MCG/ML * ACTIVE * K23856 * NMBA RECEPTOR ASSAYED.

BIOLOGICAL ACTIVITIES FOR EXTRACTS OF HUMULUS LUPULUS

HUMULUS LUPULUS (CANNABACEAE) DRIED STROBILUS GERMANY

RECEPTOR BINDING(GLYCINE) ACTIVITY * TYPE EXT NOT STATED * CONC USED 2.0 MCG/ML * ACTIVE * K23856 *

RECEPTOR BINDING(CHLORIDE) ACTIVITY * TYPE EXT NOT STATED * CONC USED 2.0 MCG/ML * ACTIVE * K23856 *

CNS DEPRESSANT ACTIVITY * ETOH(95%)EXT * MOUSE * INTRAGASTRIC * DOSE 100.0 MG/KG * ACTIVE * L29089 *

SEE ARTICLE FOR OTHER TEST RESULTS.

HUMULUS LUPULUS (CANNABACEAE) DRIED STROBILUS JAPAN

ANTIALLERGENIC ACTIVITY * H2O EXT * HUMAN ADULT * ORAL * CNS . * E01976 *

DATA INCOMPLETE - DERIVED FROM AN ABSTRACT.

BIOLOGICAL ACTIVITY REPORTED HAS BEEN PATENTED.

RADICAL SCAVENGING EFFECT * MEOH EXT * CONC USED NOT STATED * ACTIVE * K22625 *

LH-SYNTHESIS INHIBITION * H2O EXT * RAT * FEMALE * SC * DOSE 5.0 MG/ANIMAL * ACTIVE * L20811 *

SEE ARTICLE FOR OTHER TEST RESULTS.

THYMIDINE KINASE INHIBITION * H2O EXT * RAT * FEMALE * SC * DOSE 5.0 MG/ANIMAL * ACTIVE * L20811 *

SEE ARTICLE FOR OTHER TEST RESULTS.

ANTIGONADOTROPIN EFFECT(UNSPECIFIED) * H2O EXT * RAT * FEMALE * SC * DOSE 5.0 MG/ANIMAL * ACTIVE * L20811 *

SEE ARTICLE FOR OTHER TEST RESULTS.

OVULATION INHIBITION EFFECT * H2O EXT * RAT * FEMALE * SC * DOSE 5.0 MG/ANIMAL * ACTIVE * L20811 *

SEE ARTICLE FOR OTHER TEST RESULTS.

LH-RELEASE INHIBITION * H2O EXT * CELL CULTURE * CONC USED VAR INACTIVE * L20811 *

SEE ARTICLE FOR OTHER TEST RESULTS.

ANTIALLERGENIC ACTIVITY * H2O EXT * CELL CULTURE * CONC USED 100.0 MG/ML * ACTIVE * L29088 * VS.HISTAMINE RELEASE FROM RAT PERITONEAL MAST CELLS INDUCED BY COMPOUND 48/80.

SEE ARTICLE FOR OTHER TEST RESULTS.

BIOLOGICAL ACTIVITIES FOR EXTRACTS OF HUMULUS LUPULUS

HUMULUS LUPULUS (CANNABACEAE) DRIED STROBILUS JAPAN

ANTIALLERGENIC ACTIVITY * H2O EXT * DOSE 100.0 MG/KG * ACTIVE * L29088 * INHIBITED NASAL RUBBING AND SNEEZING.

SEE ARTICLE FOR OTHER TEST RESULTS.

HUMULUS LUPULUS (CANNABACEAE) DRIED STROBILUS POLAND

ALLERGENIC ACTIVITY * PLANT * HUMAN ADULT * FEMALE * EXTERNAL * CONCENTRATION NOT GIVEN NOT STATED * ACTIVE * E02278 * A CASE OF OCCUPATIONAL AIRBORNE AND HAND DERMATITIS WITH NON-OCCUPATIONAL RELAPSES.

SEE ARTICLE FOR OTHER TEST RESULTS.

HUMULUS LUPULUS (CANNABACEAE) DRIED STROBILUS SLOVENIA

ANTIMUTAGENIC ACTIVITY * DIETHYL ETHER * AGAR PLATE * CONCENTRATION NOT GIVEN NOT STATED * ACTIVE * SALMONELLA TYPHIMURIUM TA98 * L30636 *

SEE ARTICLE FOR OTHER TEST RESULTS.

HUMULUS LUPULUS (CANNABACEAE) DRIED STROBILUS USA

ANTIFUNGAL ACTIVITY * MEOH EXT * AGAR PLATE * IC50 40.0 MG/LITER * ACTIVE * RHIZOPUS NIGRICANS * A15628 *

ANTIFUNGAL ACTIVITY * MEOH EXT * AGAR PLATE * IC50 500.0 MG/LITER * WEAK ACTIVITY * PYTHIUM SPECIES * A15628 *

ANTIFUNGAL ACTIVITY * MEOH EXT * AGAR PLATE * IC50 150.0 MG/LITER * WEAK ACTIVITY * RHIZOCTONIA SOLANI * A15628 *

ANTIFUNGAL ACTIVITY * MEOH EXT * AGAR PLATE * IC50 80.0 MG/LITER * ACTIVE * A15628 * VS.SCLEROTIUM BATATICOLA.

ANTIFUNGAL ACTIVITY * MEOH EXT * AGAR PLATE * IC50 1600 MG/LITER * EQUIVOCAL * ASPERGILLUS NIGER * A15628 *

ANTIFUNGAL ACTIVITY * MEOH EXT * AGAR PLATE * IC50 200.0 MG/LITER * WEAK ACTIVITY * ASPERGILLUS ORYZAE * A15628 *

ANTIFUNGAL ACTIVITY * MEOH EXT * AGAR PLATE * IC50 600.0 MG/LITER * WEAK ACTIVITY * PHYTOPHTHORA CITROPHTHORA * A15628 *

HUMULUS LUPULUS (CANNABACEAE) DRIED STROBILUS USA

ANTIFUNGAL ACTIVITY * MEOH EXT * AGAR PLATE * IC50 300.0 MG/LITER * WEAK ACTIVITY * FUSARIUM LYCOPERSICI * A15628 *

ANTIFUNGAL ACTIVITY * MEOH EXT * AGAR PLATE * IC50 250.0 MG/LITER * WEAK ACTIVITY * PENICILLIUM DIGITATUM * A15628 *

ANTIFUNGAL ACTIVITY * MEOH EXT * AGAR PLATE * IC50 200.0 MG/LITER * WEAK ACTIVITY * BOTRYTIS CINEREA * A15628 *

ANTIFUNGAL ACTIVITY * MEOH EXT * AGAR PLATE * IC50 900.0 MG/LITER * EQUIVOCAL * ALTERNARIA CITRI * A15628 *

ANTIFUNGAL ACTIVITY * MEOH EXT * AGAR PLATE * IC50 40.0 MG/LITER * ACTIVE * SCLEROTINIA FRUITICOLA * A15628 *

ESTROGEN RECEPTOR(ALPHA) BINDING EFFECT * MEOH EXT * IC50 30.0 MCG/ML * ACTIVE * L14613 *

ESTROGEN RECEPTOR(BETA) BINDING EFFECT * MEOH EXT * IC50 27.0 MCG/ML * ACTIVE * L14613 *

ALKALINE PHOSPHATASE STIMULATION * MEOH EXT * CELL CULTURE * IC50 13.1 MCG/ML * ACTIVE * L14613 * IN ISHIKAWA CELLS.

PROTEIN EXPRESSION STIMULATION * MEOH EXT * CELL CULTURE * CONC USED 20.0 MCG/ML * ACTIVE * L14613 * VS.PROGESTERONE RECEPTOR MRNA IN ISHIKAWA CELLS.

PROTEIN EXPRESSION STIMULATION * MEOH EXT * CELL CULTURE * CONC USED 20.0 MCG/ML * ACTIVE * L14613 * VS.PRESENELIN-2 EXPRESSION IN S-30 CELLS.

CYTOTOXIC ACTIVITY * MEOH EXT * CELL CULTURE * IC50 2.5 MCG/ML * ACTIVE * L14613 * VS.ISHIKAWA CELLS.

BIOLOGICAL ACTIVITIES FOR EXTRACTS OF HUMULUS LUPULUS

HUMULUS LUPULUS (CANNABACEAE) DRIED STROBILUS USA

CYTOTOXIC ACTIVITY * MEOH EXT * CELL CULTURE * IC50 >20.0 MCG/ML * INACTIVE * L14613 * VS.S-30 CELLS.

ESTROGEN RECEPTOR BINDING EFFECT * ETOH-H2O(50%)EXT * CONC USED VAR ACTIVE * L20688 *

PROGESTERONE RECEPTOR BINDING ACTIVITY * ETOH-H2O(50%)EXT * CONC USED VAR INACTIVE * L20688 *

CELL GROWTH ENHANCEMENT EFFECT * ETOH-H2O(50%)EXT * CELL CULTURE * CONC USED VAR EQUIVOCAL * L20688 * IN THE ER(+) T47D CELLS.

ANTIPROLIFERATION ACTIVITY * ETOH-H2O(50%)EXT * CELL CULTURE * CONC USED VAR INACTIVE * L20688 * IN THE ER(-) MDA468 BREAST CANCER.

ANTIOXIDANT ACTIVITY * CHCL3 EXT * CONC USED 200.0 MCG/ML * ACTIVE * L29296 * VS. DPPH ASSAY

SEE ARTICLE FOR OTHER TEST RESULTS.

QUINONE REDUCTASE INHIBITION * CHCL3 EXT * CELL CULTURE * CONC USED 3.2 MICROMOLS/ACTIVE * L29296 *

SEE ARTICLE FOR OTHER TEST RESULTS.

CYTOTOXIC ACTIVITY * CHCL3 EXT * CELL CULTURE * IC50 >20.0 MCG/ML * INACTIVE * L29296 * VS.HEP-G-2 ARE-C-8 CELLS

SEE ARTICLE FOR OTHER TEST RESULTS.

ANTIOXIDANT ACTIVITY * CONC USED 200.0 MICROMOLS/WEAK ACTIVITY * L29296 * VS.DPPH ASSAY

SEE ARTICLE FOR OTHER TEST RESULTS.

ANTIOXIDANT ACTIVITY * CHROMATOGRAPHIC FRACTION * CONC USED 200.0 MICROMOLS/ACTIVE * L30193 * VS. DPPH ASSAY

SEE ARTICLE FOR OTHER TEST RESULTS.

CYTOTOXIC ACTIVITY * CHROMATOGRAPHIC FRACTION * CELL CULTURE * LD50 >20.0 MICROMOLS/INACTIVE * HEPATOMA-HEPA-1C1C7 * L30193 *

SEE ARTICLE FOR OTHER TEST RESULTS.

BIOLOGICAL ACTIVITIES FOR EXTRACTS OF HUMULUS LUPULUS

HUMULUS LUPULUS (CANNABACEAE) DRIED STROBILUS USA

QUINONE REDUCTASE INDUCTION * CHROMATOGRAPHIC FRACTION * CELL CULTURE * CONC USED 3.2 MICROMOLS/ACTIVE * HEPATOMA-HEPA-1C1C7 * L30193 * CONCENTRATION REQUIRED TO DOUBLE QR INDUCTION

SEE ARTICLE FOR OTHER TEST RESULTS.

QUINONE REDUCTASE INDUCTION * MEOH EXT * CELL CULTURE * CONC USED <20.0 MCG/ML * EQUIVOCAL * HEPATOMA-HEPA-1C1C7 * L30218 * METHANOLIC EXTRACT OF SPENT HOP PELLETS. ASSAY USED TO DETERMINE THE CONCENTRATION REQUIRED TO DOUBLE QUINONE REDUCTASE ACTIVITY.

SEE ARTICLE FOR OTHER TEST RESULTS.

QUINONE REDUCTASE INDUCTION * CHROMATOGRAPHIC FRACTION * CELL CULTURE * CONC USED 3.5 MCG/ML * HEPATOMA-HEPA-1C1C7 * L30218 * CHLOROFORM FRACTION OF METHANOLIC EXTRACT OF SPENT HOP PELLETS. ASSAY USED TO DETERMINE THE CONCENTRATION REQUIRED TO DOUBLE QUINONE REDUCTASE ACTIVITY.

SEE ARTICLE FOR OTHER TEST RESULTS.

CARCINOGENESIS INHIBITION * MEOH EXT * NOT STATED * EQUIVOCAL * L30218 * A METHANOLIC EXTRACT OF SPENT HOP PELLETS WAS EVALUATED USING AN ONLINE LC/MS SCREENING ASSAY BASED ON THE MASS SPECTROMETRIC IDENTIFICATION OF COMPOUNDS THAT ALKYLATE THE CYTOPLASMIC ACTIN-BINDING KEAP1 PROTEIN, LEADING TO THE UPREGULATION OF ANTIOXIDANT RESPONSE ELEMENT-MEDIATED INDUCTION OF PHASE II DETOXIFYING AND ANTIOXIDATIVE STRESS ENZYME NRF2

SEE ARTICLE FOR OTHER TEST RESULTS.

CARCINOGENESIS INHIBITION * CHROMATOGRAPHIC FRACTION * NOT STATED * ACTIVE * L30218 * A CHLOROFORM PARTITION OF A METHANOLIC EXTRACT OF SPENT HOP PELLETS WAS EVALUATED USING AN ONLINE LC/MS SCREENING ASSAY BASED ON THE MASS SPECTROMETRIC IDENTIFICATION OF COMPOUNDS THAT ALKYLATE THE CYTOPLASMIC ACTIN-BINDING KEAP1 PROTEIN, LEADING TO THE UPREGULATION OF ANTIOXIDANT RESPONSE ELEMENT-MEDIATED INDUCTION OF PHASE II DETOXIFYING AND ANTIOXIDATIVE STRESS ENZYME NRF2

SEE ARTICLE FOR OTHER TEST RESULTS.

HUMULUS LUPULUS (CANNABACEAE) FRESH STROBILUS JAPAN

ANTIOXIDANT ACTIVITY * MEOH EXT * CONC USED NOT STATED * ACTIVE * K18347 *

DATA INCOMPLETE - DERIVED FROM AN ABSTRACT.

HUMULUS LUPULUS CULTIVARS (CANNABACEAE) ESSENTIAL OIL BELGIUM(CULT)

ANTIBACTERIAL ACTIVITY * ESSENTIAL OIL * AGAR PLATE * CONC USED 2.5 MICROLITERS/DISC * ACTIVE * ESCHERICHIA COLI * K09698 *

BIOLOGICAL ACTIVITIES FOR EXTRACTS OF HUMULUS LUPULUS CULTIVARS

HUMULUS LUPULUS CULTIVARS (CANNABACEAE) ESSENTIAL OIL BELGIUM(CULT)

ANTIBACTERIAL ACTIVITY * ESSENTIAL OIL * AGAR PLATE * CONC USED 2.5 MICROLITERS/DISC * ACTIVE * BACILLUS SUBTILIS * K09698 *

ANTIBACTERIAL ACTIVITY * ESSENTIAL OIL * AGAR PLATE * CONC USED 2.5 MICROLITERS/DISC * ACTIVE * STAPHYLOCOCCUS AUREUS * K09698 *

ANTIYEAST ACTIVITY * ESSENTIAL OIL * AGAR PLATE * CONC USED 2.5 MICROLITERS/DISC * ACTIVE * CANDIDA ALBICANS * K09698 *

ANTIFUNGAL ACTIVITY * ESSENTIAL OIL * AGAR PLATE * CONC USED 2.5 MICROLITERS/DISC * ACTIVE * TRICHOPHYTON INTERDIGITALE * K09698 *

HUMULUS LUPULUS CULTIVARS (CANNABACEAE) DRIED STROBILUS BELGIUM(CULT)

ANTIBACTERIAL ACTIVITY * SOLVENT PARTITION FRACTION * AGAR PLATE * CONC USED 20.0 MG/ML * ACTIVE * ESCHERICHIA COLI * K09698 *

ANTIBACTERIAL ACTIVITY * SOLVENT PARTITION FRACTION * AGAR PLATE * CONC USED 20.0 MG/ML * ACTIVE * BACILLUS SUBTILIS * K09698 *

ANTIBACTERIAL ACTIVITY * SOLVENT PARTITION FRACTION * AGAR PLATE * CONC USED 20.0 MG/ML * ACTIVE * STAPHYLOCOCCUS AUREUS * K09698 *

ANTIYEAST ACTIVITY * SOLVENT PARTITION FRACTION * AGAR PLATE * CONC USED 20.0 MG/ML * ACTIVE * CANDIDA ALBICANS * K09698 *

ANTIFUNGAL ACTIVITY * SOLVENT PARTITION FRACTION * AGAR PLATE * CONC USED 20.0 MG/ML * ACTIVE * TRICHOPHYTON INTERDIGITALE * K09698 *

BIOLOGICAL ACTIVITIES FOR EXTRACTS OF HUMULUS LUPULUS CV.WYE TARGET

HUMULUS LUPULUS CV.WYE TARGET (CANNABACEAE) ESSENTIAL OIL NETHERLANDS

ANTIBACTERIAL ACTIVITY * ESSENTIAL OIL * AGAR PLATE * CONC USED 2.5 MICROLITERS/DISC * INACTIVE * ESCHERICHIA COLI * K19321 *

ANTIBACTERIAL ACTIVITY * ESSENTIAL OIL * AGAR PLATE * CONC USED 2.5 MICROLITERS/DISC * ACTIVE * BACILLUS SUBTILIS * K19321 *

ANTIBACTERIAL ACTIVITY * ESSENTIAL OIL * AGAR PLATE * CONC USED 2.5 MICROLITERS/DISC * ACTIVE * STAPHYLOCOCCUS AUREUS * K19321 *

ANTIYEAST ACTIVITY * ESSENTIAL OIL * AGAR PLATE * CONC USED 2.5 MICROLITERS/DISC * ACTIVE * CANDIDA ALBICANS * K19321 *

ANTIFUNGAL ACTIVITY * ESSENTIAL OIL * AGAR PLATE * CONC USED 2.5 MICROLITERS/DISC * ACTIVE * TRICHOPHYTON MENTAGROPHYTES * K19321 *

HUMULUS LUPULUS GENOTYPES (CANNABACEAE) DRIED STROBILUS SERBIA

DRUG INTERACTION * ETOH(70%)EXT * MOUSE * ROUTE NOT GIVEN * DOSE 0.5 %/ACTIVE * L30227 * IN THE SPONTANEOUS MOTILITY TEST, HOPS EXTRACT DOSED AT 24, 16, 2 AND 0.5 HOURS PRIOR TO IP COCAINE ADMINISTRATION. REDUCTION IN THE EFFECT OF COCAINE ON SPONTANEOUS MOTILITY WAS OBSERVED.

SEE ARTICLE FOR OTHER TEST RESULTS.

DRUG INTERACTION * ETOH(70%)EXT * MOUSE * ROUTE NOT GIVEN * DOSE 0.5 %/ACTIVE * L30227 * IN THE HOT-PLATE TEST, HOPS EXTRACT DOSED AT 24, 16, 2 AND 0.5 HOURS PRIOR TO IP PARACETAMOL ADMINISTRATION. POTENTIATION OF THE ANALGESIC EFFECT OF PARACETAMOL WAS OBSERVED.

SEE ARTICLE FOR OTHER TEST RESULTS.

HUMULUS LUPULUS SEX FEMALE (CANNABACEAE) DRIED INFLORESCENCE JAPAN

ANTIBACTERIAL ACTIVITY * MEOH EXT * AGAR PLATE * MIC 0.13 MG/ML * WEAK ACTIVITY * HELICOBACTER PYLORI * L13887 *

BIOLOGICAL ACTIVITIES FOR EXTRACTS OF HUMULUS LUPULUS SEX FEMALE

HUMULUS LUPULUS SEX FEMALE (CANNABACEAE) DRIED INFLORESCENCE USA

NITRIC OXIDE SYNTHASE INHIBITION * PROANTHOCYANIDIN FRACTION * IC50 7.15 MCG/ML * ACTIVE * L19987 * WITH 0.01 MM CACL2.

NITRIC OXIDE SYNTHASE INHIBITION * PROANTHOCYANIDIN FRACTION * IC50 2.4 MCG/ML * ACTIVE * L19987 * WITH 1.0 MM CACL2.

LDL OXIDATION INHIBITION * PROANTHOCYANIDIN FRACTION * CONC USED 0.1 MCG/ML * ACTIVE * L19987 * VS.SIN-1 INDUCED LDL OXIDATION.

HUMULUS LUPULUS SEX MALE (CANNABACEAE) CALLUS DERIVED FROM STEM JAPAN

ANTITUMOR ACTIVITY * H2O EXT * MOUSE * IP * DOSE 100.0 MG/KG * ACTIVE * SARCOMA 180(ASC) * N11897 *

PRESENCE OF COMPOUNDS IN HUMULUS LUPULUS

HUMULUS LUPULUS

ASTRAGALIN * FLAVONOL * DRIED STROBILUS * CZECH REPUBLIC * YIELD NOT STATED * L30632

CHLOROGENIC ACID * PHENYLPROPANOID * DRIED STROBILUS * CZECH REPUBLIC * YIELD NOT STATED * L30632

COHUMULONE * ALICYCLIC * DRIED STROBILUS * CZECH REPUBLIC * YIELD NOT STATED * L30632

CYNAROSIDE * FLAVONE * DRIED STROBILUS * CZECH REPUBLIC * YIELD NOT STATED * L30632

HESPERIDIN * FLAVANONE * DRIED STROBILUS * CZECH REPUBLIC * YIELD NOT STATED * L30632

HIMYB-3 * PROTEID * STROBILUS * * YIELD NOT STATED * H38152

HUMULINONE * ALICYCLIC * DRIED STROBILUS * CZECH REPUBLIC * YIELD NOT STATED * L30632

HUMULONE * ALICYCLIC * DRIED STROBILUS * CZECH REPUBLIC * YIELD NOT STATED * L30632

LUPULONE * ALICYCLIC * DRIED STROBILUS * CZECH REPUBLIC * YIELD NOT STATED * L30632

MALTOSE * CARBOHYDRATE * DRIED STROBILUS * CZECH REPUBLIC * YIELD NOT STATED * L30632

NICOTIFLORIN * FLAVONOL * DRIED STROBILUS * CZECH REPUBLIC * YIELD NOT STATED * L30632

HUMULUS LUPULUS

RUTIN * FLAVONOL * DRIED STROBILUS * CZECH REPUBLIC * YIELD NOT STATED * L30632

SPIRAEOSIDE * FLAVONOL * DRIED STROBILUS * CZECH REPUBLIC * YIELD NOT STATED * L30632

XANTHOHUMOL * FLAVONOID * DRIED STROBILUS * CZECH REPUBLIC * YIELD NOT STATED * L30632

XANTHOHUMOL,DEMETHYL: * FLAVONOID * DRIED STROBILUS * CZECH REPUBLIC * YIELD NOT STATED * L30632

XANTHOHUMOL,ISO: * FLAVANONE * DRIED STROBILUS * CZECH REPUBLIC * YIELD NOT STATED * L30632

HUMULUS LUPULUS (CANNABACEAE)

ACETONE * ALKANONE TO C4 * INFLORESCENCE * GERMANY * YIELD NOT STATED * M12017

ACETONE * ALKANONE TO C4 * DRIED FRUIT * EUROPE * YIELD NOT STATED * N12648

ADENYLATE-ISO-PENTENYL-TRANSFERASE * PROTEID * FRESH STROBILUS * JAPAN * YIELD NOT STATED * L28211

ADHULUPONE * ALICYCLIC * DRIED STROBILUS * SWEDEN * YIELD NOT STATED * A15514

ADHUMULONE * ALICYCLIC * FRESH STROBILUS * USA * YIELD NOT STATED * A15505

ADHUMULONE * ALICYCLIC * DRIED STROBILUS * * YIELD NOT STATED * A15508

ADHUMULONE * ALICYCLIC * DRIED STROBILUS * GERMANY * YIELD NOT STATED * A15510

ADHUMULONE * ALICYCLIC * DRIED STROBILUS * CANADA * YIELD NOT STATED * A15511

ADHUMULONE * ALICYCLIC * DRIED STROBILUS * USA * YIELD NOT STATED * A15519

ADHUMULONE * ALICYCLIC * FEMALE FLOWERS * NETHERLANDS * YIELD NOT STATED * J11311

ADHUMULONE * ALICYCLIC * DRIED STROBILUS * BELGIUM(CULT) * YIELD NOT STATED * J16953

ADHUMULONE * ALICYCLIC * FRESH STROBILUS * NETHERLANDS * YIELD NOT STATED * J17969

HUMULUS LUPULUS (CANNABACEAE)

ADHUMULONE * ALICYCLIC * DRIED STROBILUS * * YIELD NOT STATED * K19124

ADHUMULONE * ALICYCLIC * DRIED STROBILUS * * YIELD NOT STATED * K19132

ADHUMULONE * ALICYCLIC * DRIED STROBILUS * USA-OR(CULT) * YIELD NOT STATED * K21550

ADHUMULONE * ALICYCLIC * DRIED STROBILUS * GERMANY * YIELD NOT STATED * K22034

ADHUMULONE * ALICYCLIC * DRIED STROBILUS * * YIELD NOT STATED * K23838

ADHUMULONE * ALICYCLIC * COMMERCIAL SAMPLE OF STROBILUS * GERMANY * YIELD NOT STATED * L13153

ADHUMULONE * ALICYCLIC * COMMERCIAL SAMPLE OF STROBILUS * * YIELD NOT STATED * L13330

ADHUMULONE * ALICYCLIC * DRIED STROBILUS * CZECH REPUBLIC * YIELD NOT STATED * L23184

ADHUMULONE * ALICYCLIC * DRIED STROBILUS * SLOVENIA * YIELD NOT STATED * L30238

ADHUMULONE * ALICYCLIC * INFLORESCENCE * GERMANY * YIELD NOT STATED * M12017

ADHUMULONE * ALICYCLIC * DRIED ENTIRE PLANT * TURKEY * YIELD NOT STATED * M31419

ADLUPULONE * ALICYCLIC * DRIED STROBILUS * * YIELD NOT STATED * A15508

ADLUPULONE * ALICYCLIC * DRIED STROBILUS * USA * YIELD NOT STATED * A15623

ADLUPULONE * ALICYCLIC * FEMALE FLOWERS * NETHERLANDS * YIELD NOT STATED * J11311

ADLUPULONE * ALICYCLIC * DRIED STROBILUS * BELGIUM(CULT) * YIELD NOT STATED * J16953

ADLUPULONE * ALICYCLIC * DRIED STROBILUS * * YIELD NOT STATED * K19124

ADLUPULONE * ALICYCLIC * DRIED STROBILUS * GERMANY * YIELD NOT STATED * K22034

ADLUPULONE * ALICYCLIC * DRIED STROBILUS * * YIELD NOT STATED * K23838

HUMULUS LUPULUS (CANNABACEAE)

ADLUPULONE * ALICYCLIC * DRIED LEAF * GERMANY * YIELD NOT STATED * L03340

ADLUPULONE * ALICYCLIC * COMMERCIAL SAMPLE OF STROBILUS * GERMANY * YIELD NOT STATED * L13153

ADLUPULONE * ALICYCLIC * DRIED STROBILUS * CZECH REPUBLIC * YIELD NOT STATED * L23184

ADLUPULONE * ALICYCLIC * DRIED STROBILUS * SLOVENIA * YIELD NOT STATED * L30192

ADLUPULONE * ALICYCLIC * DRIED STROBILUS * SLOVENIA * YIELD NOT STATED * L30238

ADLUPULONE * ALICYCLIC * INFLORESCENCE * GERMANY * YIELD NOT STATED * M12017

ADLUPULONE * ALICYCLIC * DRIED ENTIRE PLANT * TURKEY * YIELD NOT STATED * M31419

ADLUPULONE * ALICYCLIC * DRIED FRUIT * * YIELD NOT STATED * W01848

ADPREHUMULONE * ALICYCLIC * DRIED STROBILUS * ESTONIA * YIELD NOT STATED * L30161

ALANINE * PROTEID * DRIED STROBILUS * RUSSIA * YIELD NOT STATED * L15018

ALPHA ACIDS * ALICYCLIC * STROBILUS * CHINA * YIELD NOT STATED * L15315

AMINE,DIETHYL: * ALKALOID-MISC * DRIED INFLORESCENCE * GERMANY * 03.10 PPM * T07979

AMINE,DIMETHYL: * ALKALOID-MISC * DRIED INFLORESCENCE * GERMANY * 01.40 PPM * T07979

AMINE,ETHYL-METHYL: * ALKALOID-MISC * DRIED INFLORESCENCE * GERMANY * 03.70 PPM * T07979

AMINE,ISO-PENTYL: * ALKALOID-MISC * DRIED INFLORESCENCE * GERMANY * 00.40 PPM * T07979

ARACHIDIC ACID * LIPID * COMMERCIAL SAMPLE OF STROBILUS * * YIELD NOT STATED * L30585

ASCORBIC ACID * VITAMIN * FRESH STROBILUS * RUSSIA * YIELD NOT STATED * A15501

ASTRAGALIN * FLAVONOL * DRIED STROBILUS * GERMANY * YIELD NOT STATED * A15494

HUMULUS LUPULUS (CANNABACEAE)

ASTRAGALIN * FLAVONOL * DRIED STROBILUS * CZECHOSLOVAKIA * YIELD NOT STATED * A15504

ASTRAGALIN * FLAVONOL * DRIED STROBILUS * BELGIUM(CULT) * YIELD NOT STATED * J16953

ASTRAGALIN * FLAVONOL * DRIED BRACTS * JAPAN(CULT) * YIELD NOT STATED * L03035

ASTRAGALIN * FLAVONOL * DRIED STROBILUS * SPAIN * YIELD NOT STATED * L30239

BEHENIC ACID * LIPID * COMMERCIAL SAMPLE OF STROBILUS * * YIELD NOT STATED * L30585

BENZYLAMINE,TRI: * ALKALOID-MISC * FRESH STROBILUS * CHINA * 00.00042% * H32196

BERGAMOTENE,ALPHA: * SESQUITERPENE * STROBILUS ESSENT OIL * USA * YIELD NOT STATED * L17403

BETA ACIDS * ALICYCLIC * STROBILUS * CHINA * YIELD NOT STATED * L15315

BUT-3-EN-1-OL,2-METHYL: * ALKANOL TO C4 * DRIED STROBILUS * * YIELD NOT STATED * K23838

BUT-3-EN-2-OL,2-METHYL: * ALKANOL TO C4 * INFLORESCENCE * GERMANY * YIELD NOT STATED * M12017

BUT-3-EN-2-OL,2-METHYL: * ALKANOL TO C4 * DRIED FRUIT * GERMANY * YIELD NOT STATED * M12982

BUT-3-EN-2-OL,2-METHYL: * ALKANOL TO C4 * DRIED FRUIT * GERMANY * 00.1% * M13604

BUT-3-EN-2-OL,2-METHYL: * ALKANOL TO C4 * DRIED FRUIT * EUROPE * YIELD NOT STATED * N12648

BUT-3-EN-2-OL,2-METHYL: * ALKANOL TO C4 * DRIED FRUIT * * YIELD NOT STATED * N16040

BUTANOIC ACID,2-METHYL: ETHYL ESTER * ALKANE TO C4 * STROBILUS * GERMANY * YIELD NOT STATED * L17300

BUTANOIC ACID,2-METHYL: METHYL ESTER * ALKANE TO C4 * STROBILUS * GERMANY * YIELD NOT STATED * L17300

BUTANOIC ACID,2-METHYL: PROPYL ESTER * ALKANE TO C4 * STROBILUS * GERMANY * YIELD NOT STATED * L17300

BUTYRATE,ISO: 2-METHYL-BUTYL: * ALKANOL TO C4 * STROBILUS ESSENT OIL * USA * 00.41-2.32% * L17403

HUMULUS LUPULUS (CANNABACEAE)

BUTYRIC ACID,ISO: 2-METHYL-BUTYL: * ALKANE TO C4 * ESSENTIAL OIL * USA * YIELD NOT STATED * L23793

CADINENE * SESQUITERPENE * LEAF ESSENTIAL OIL * GERMANY * YIELD NOT STATED * L03340

CADINENE * SESQUITERPENE * STROBILUS ESSENT OIL * USA * 00.75-1.53% * L17403

CADINENE,ALPHA: * SESQUITERPENE * STROBILUS ESSENT OIL * ARGENTINA * 00.6% * L10793

CADINENE,DELTA: * SESQUITERPENE * STROBILUS ESSENT OIL * ARGENTINA * 04.1% * L10793

CADINENE,DELTA: * SESQUITERPENE * ESSENTIAL OIL * USA * YIELD NOT STATED * L23793

CADINENE,GAMMA: * SESQUITERPENE * STROBILUS ESSENT OIL * ARGENTINA * 05.5% * L10793

CADINENE,GAMMA: * SESQUITERPENE * STROBILUS ESSENT OIL * USA * YIELD NOT STATED * L17403

CADINENE,GAMMA: * SESQUITERPENE * ESSENTIAL OIL * USA * YIELD NOT STATED * L23793

CADINOL,DELTA: * SESQUITERPENE * STROBILUS ESSENT OIL * USA * YIELD NOT STATED * L17403

CANNABIDIOL * MONOTERPENE * LEAF * ENGLAND * YIELD NOT STATED * J09694

CARYOPHYLLA-3(12)-6-DIEN-4-OL * SESQUITERPENE * ESSENTIAL OIL * JAPAN * YIELD NOT STATED * T07092

CARYOPHYLLA-3-8(13)-DIEN-5-ALPHA-OL * SESQUITERPENE * ESSENTIAL OIL * JAPAN * YIELD NOT STATED * M15205

CARYOPHYLLA-3-8(13)-DIEN-5-BETA-OL * SESQUITERPENE * ESSENTIAL OIL * JAPAN * YIELD NOT STATED * M15205

CARYOPHYLLA-4(12)-8(13)-DIEN-5-BETA-OL * SESQUITERPENE * ESSENTIAL OIL * JAPAN * YIELD NOT STATED * M15205

CARYOPHYLLENE * SESQUITERPENE * STROBILUS ESSENT OIL * USA * 06.92-15.32% * L17403

CARYOPHYLLENE * SESQUITERPENE * ESSENTIAL OIL * USA * YIELD NOT STATED * L23793

CARYOPHYLLENE * SESQUITERPENE * DRIED ENTIRE PLANT * TURKEY * YIELD NOT STATED * M31419

HUMULUS LUPULUS (CANNABACEAE)

CARYOPHYLLENE OXIDE * SESQUITERPENE * STROBILUS ESSENT OIL * ARGENTINA * 00.3% * L10793

CARYOPHYLLENE OXIDE * SESQUITERPENE * ESSENTIAL OIL * USA(CULT) * YIELD NOT STATED * M13411

CARYOPHYLLENE OXIDE * SESQUITERPENE * ESSENTIAL OIL * JAPAN * YIELD NOT STATED * T07092

CARYOPHYLLENE,4-5-EPI-THIO: * SESQUITERPENE * ESSENTIAL OIL * * YIELD NOT STATED * N04531

CARYOPHYLLENE,BETA: * SESQUITERPENE * ESSENTIAL OIL * USA * YIELD NOT STATED * A15496

CARYOPHYLLENE,BETA: * SESQUITERPENE * STROBILUS ESSENT OIL * ARGENTINA * 09.8% * L10793

CARYOPHYLLENE,BETA: * SESQUITERPENE * ESSENTIAL OIL * USA(CULT) * YIELD NOT STATED * M13411

CARYOPHYLLENE,BETA: (?) * SESQUITERPENE * ESSENTIAL OIL * FRANCE * YIELD NOT STATED * A15509

CARYOPHYLLENE,BETA: OXIDE * SESQUITERPENE * LEAF ESSENTIAL OIL * GERMANY * YIELD NOT STATED * L03340

CARYOPHYLLENE,BETA: TRANS: * SESQUITERPENE * DRIED STROBILUS * ESTONIA * YIELD NOT STATED * L30161

CARYOPHYLLENE,GAMMA: * SESQUITERPENE * ESSENTIAL OIL * USA * YIELD NOT STATED * A15496

CARYOPHYLLENE,TRANS: * SESQUITERPENE * ESSENTIAL OIL * * YIELD NOT STATED * L12722

CARYOPHYLOLENE,BETA: * SESQUITERPENE * LEAF ESSENTIAL OIL * GERMANY * YIELD NOT STATED * L03340

CATECHIN,(+): * FLAVONOID * DRIED BRACTS * JAPAN(CULT) * YIELD NOT STATED * L03035

CATECHIN,(+): * FLAVONOID * DRIED FRUIT * IRELAND * YIELD NOT STATED * N14050

CATECHIN,EPI: (-): * FLAVONOID * DRIED BRACTS * JAPAN(CULT) * YIELD NOT STATED * L03035

CATECHIN,EPI: (-): * FLAVONOID * DRIED FRUIT * IRELAND * YIELD NOT STATED * N14050

CHALCONARINGENIN,3'-5'-DIPRENYL: * FLAVONOID * DRIED STROBILUS * USA * YIELD NOT STATED * H28662

HUMULUS LUPULUS (CANNABACEAE)

CHALCONARINGENIN,3'-GERANYL: * FLAVONOID * DRIED STROBILUS * USA * YIELD NOT STATED * H28662

CHALCONARINGENIN,3'-GERANYL: * FLAVONOID * DRIED STROBILUS * * YIELD NOT STATED * L08929

CHALCONARINGENIN,4'-6'-DI-O-METHYL: * FLAVONOID * DRIED STROBILUS * USA * YIELD NOT STATED * H28662

CHALCONE,2'-4-4'-6'-TETRAHYDROXY-3'-GERANYL: * FLAVONOID * DRIED STROBILUS * USA-OR * YIELD NOT STATED * L03979

CHALCONE,2'-4-4'-6'-TETRAHYDROXY-3'-PRENYL: * FLAVONOID * DRIED STROBILUS * USA-OR * YIELD NOT STATED * L03979

CHALCONE,2'-6'-DIMETHOXY-4-4'-DIHYDROXY: * FLAVONOID * FROZEN FRUIT * JAPAN * 00.0075% * M19982

CHALCONE,3'-(ISO-PRENYL)-2'-4-DIHYDROXY-4'-6'-DIMETHOXY: * FLAVONOID * FROZEN FRUIT * JAPAN * 00.002755 * M19982

CHLOROGENIC ACID * PHENYLPROPANOID * DRIED STROBILUS * SPAIN * YIELD NOT STATED * L30239

CITRAL * MONOTERPENE * ESSENTIAL OIL * USA(CULT) * YIELD NOT STATED * M13411

CODEINE (?) * ISOQUINOLINE ALKALOID * DRIED STROBILUS * RUSSIA * YIELD NOT STATED * L15018

COHULUPONE * ALICYCLIC * DRIED STROBILUS * SWEDEN * YIELD NOT STATED * A15514

COHUMULONE * ALICYCLIC * ESSENTIAL OIL * USA * YIELD NOT STATED * A15496

COHUMULONE * ALICYCLIC * FRESH STROBILUS * USA * YIELD NOT STATED * A15505

COHUMULONE * ALICYCLIC * DRIED STROBILUS * * YIELD NOT STATED * A15508

COHUMULONE * ALICYCLIC * DRIED STROBILUS * GERMANY * YIELD NOT STATED * A15510

COHUMULONE * ALICYCLIC * DRIED STROBILUS * USA * YIELD NOT STATED * A15519

COHUMULONE * ALICYCLIC * DRIED STROBILUS * USA * YIELD NOT STATED * A15623

COHUMULONE * ALICYCLIC * FEMALE FLOWERS * NETHERLANDS * YIELD NOT STATED * J11311

HUMULUS LUPULUS (CANNABACEAE)

COHUMULONE * ALICYCLIC * DRIED STROBILUS * BELGIUM(CULT) * YIELD NOT STATED * J16953

COHUMULONE * ALICYCLIC * FRESH STROBILUS * NETHERLANDS * YIELD NOT STATED * J17969

COHUMULONE * ALICYCLIC * ENTIRE PLANT * * YIELD NOT STATED * K03530

COHUMULONE * ALICYCLIC * DRIED STROBILUS * * YIELD NOT STATED * K19124

COHUMULONE * ALICYCLIC * DRIED STROBILUS * * YIELD NOT STATED * K19132

COHUMULONE * ALICYCLIC * DRIED STROBILUS * USA-OR(CULT) * YIELD NOT STATED * K21550

COHUMULONE * ALICYCLIC * DRIED STROBILUS * GERMANY * YIELD NOT STATED * K22034

COHUMULONE * ALICYCLIC * DRIED STROBILUS * * YIELD NOT STATED * K23838

COHUMULONE * ALICYCLIC * COMMERCIAL SAMPLE OF STROBILUS * GERMANY * YIELD NOT STATED * L13153

COHUMULONE * ALICYCLIC * COMMERCIAL SAMPLE OF STROBILUS * * YIELD NOT STATED * L13330

COHUMULONE * ALICYCLIC * DRIED STROBILUS * CZECH REPUBLIC * YIELD NOT STATED * L23184

COHUMULONE * ALICYCLIC * DRIED STROBILUS * ESTONIA * YIELD NOT STATED * L30161

COHUMULONE * ALICYCLIC * DRIED STROBILUS * SLOVENIA * YIELD NOT STATED * L30238

COHUMULONE * ALICYCLIC * DRIED STROBILUS * SPAIN * YIELD NOT STATED * L30239

COHUMULONE * ALICYCLIC * INFLORESCENCE * GERMANY * YIELD NOT STATED * M12017

COHUMULONE * ALICYCLIC * DRIED ENTIRE PLANT * TURKEY * YIELD NOT STATED * M31419

COHUMULONE,4-DEOXY: * BENZENOID * ENTIRE PLANT * * YIELD NOT STATED * J07908

COHUMULONE,4-DEOXY: * BENZENOID * ENTIRE PLANT * * YIELD NOT STATED * K04590

HUMULUS LUPULUS (CANNABACEAE)

COHUMULONE,DEOXY: * BENZENOID * FRESH STROBILUS * NETHERLANDS(CULT) * YIELD NOT STATED * J18378

COHUMULONE,DEOXY: * BENZENOID * ENTIRE PLANT * * YIELD NOT STATED * K03530

COLUPULONE * ALICYCLIC * DRIED STROBILUS * * YIELD NOT STATED * A15508

COLUPULONE * ALICYCLIC * ENTIRE PLANT * * YIELD NOT STATED * J07908

COLUPULONE * ALICYCLIC * FEMALE FLOWERS * NETHERLANDS * YIELD NOT STATED * J11311

COLUPULONE * ALICYCLIC * DRIED STROBILUS * BELGIUM(CULT) * YIELD NOT STATED * J16953

COLUPULONE * ALICYCLIC * FRESH STROBILUS * NETHERLANDS * YIELD NOT STATED * J17969

COLUPULONE * ALICYCLIC * ENTIRE PLANT * * YIELD NOT STATED * K03530

COLUPULONE * ALICYCLIC * ENTIRE PLANT * * YIELD NOT STATED * K04590

COLUPULONE * ALICYCLIC * DRIED STROBILUS * * YIELD NOT STATED * K19124

COLUPULONE * ALICYCLIC * DRIED STROBILUS * GERMANY * YIELD NOT STATED * K22034

COLUPULONE * ALICYCLIC * DRIED STROBILUS * * YIELD NOT STATED * K23838

COLUPULONE * ALICYCLIC * DRIED LEAF * GERMANY * YIELD NOT STATED * L03340

COLUPULONE * ALICYCLIC * COMMERCIAL SAMPLE OF STROBILUS * GERMANY * YIELD NOT STATED * L13153

COLUPULONE * ALICYCLIC * DRIED STROBILUS * CZECH REPUBLIC * YIELD NOT STATED * L23184

COLUPULONE * ALICYCLIC * DRIED STROBILUS * ESTONIA * YIELD NOT STATED * L30161

COLUPULONE * ALICYCLIC * DRIED STROBILUS * SLOVENIA * YIELD NOT STATED * L30192

COLUPULONE * ALICYCLIC * DRIED STROBILUS * SLOVENIA * YIELD NOT STATED * L30238

HUMULUS LUPULUS (CANNABACEAE)

COLUPULONE * ALICYCLIC * INFLORESCENCE * GERMANY * YIELD NOT STATED * M12017

COLUPULONE * ALICYCLIC * DRIED ENTIRE PLANT * TURKEY * YIELD NOT STATED * M31419

COLUPULONE * ALICYCLIC * DRIED FRUIT * * YIELD NOT STATED * W01848

COPAENE,ALPHA: * SESQUITERPENE * STROBILUS ESSENT OIL * ARGENTINA * 01.5% * L10793

CUBEBENE,BETA: * SESQUITERPENE * STROBILUS ESSENT OIL * ARGENTINA * 00.3% * L10793

CUBEBENE,BETA: * SESQUITERPENE * STROBILUS ESSENT OIL * USA * YIELD NOT STATED * L17403

CYCLOHEPT-5-ENE,1-2-3-TRITHIA: 5-(4-METHYL-PENT-3-ENYL): * MONOTERPENE * ESSENTIAL OIL * ENGLAND * YIELD NOT STATED * H00078

CYCLOHEX-4-ENE,1-2-DITHIA: 4-(4-METHYL-PENT-3-ENYL): * MONOTERPENE * ESSENTIAL OIL * ENGLAND * YIELD NOT STATED * H00078

CYCLOOCT-6-ENE,1-2-3-4-TETRATHIA: 6-(4-METHYL-PENT-3-ENYL): * MONOTERPENE * ESSENTIAL OIL * ENGLAND * YIELD NOT STATED * H00078

CYCLOPENT-4-EN-1-3-DIONE,2-2-DI-(3-METHYL-BUT-2-ENYL)-4-5-DIHYDROXY: * ALICYCLIC * DRIED STROBILUS * * YIELD NOT STATED * H31111

CYCLOXANTHOHUMOL,DEHYDRO: * FLAVONOID * DRIED STROBILUS * USA-OR * YIELD NOT STATED * L03979

CYCLOXANTHOHUMOL,DEHYDRO: HYDRATE * FLAVONOID * DRIED STROBILUS * USA-OR * YIELD NOT STATED * L03979

CYCLOXANTHOHUMOL,ISO: DEHYDRO: * FLAVONOID * COMMERCIAL SAMPLE OF STROBILUS * GERMANY * YIELD NOT STATED * H24654

CYMENE,ALLO: * MONOTERPENE * ESSENTIAL OIL * CHINA * YIELD NOT STATED * T13226

CYNAROSIDE * FLAVONE * DRIED STROBILUS * SPAIN * YIELD NOT STATED * L30239

DEC-4-ENOIC ACID METHYL ESTER * LIPID * STROBILUS ESSENT OIL * USA * YIELD NOT STATED * L17403

DECA-4-8-DIENOIC ACID METHYL ESTER * LIPID * STROBILUS ESSENT OIL * USA * YIELD NOT STATED * L17403

DECAN-1-AL * ALKANAL C5 OR MORE * ESSENTIAL OIL * CHINA * YIELD NOT STATED * T13226

HUMULUS LUPULUS (CANNABACEAE)

DECAN-2-ONE * ALKANONE C5 OR MORE * DRIED STROBILUS * ESTONIA * YIELD NOT STATED * L30161

DECANOIC ACID 4-METHYL ESTER * LIPID * ESSENTIAL OIL * USA * YIELD NOT STATED * L23793

DECANOIC ACID METHYL ESTER * LIPID * STROBILUS ESSENT OIL * USA * YIELD NOT STATED * L17403

DEC-TRANS-2-EN-1-AL,4-5-EPOXY: TRANS: * ALKENAL C5 OR MORE * STROBILUS * GERMANY * YIELD NOT STATED * L17300

DIPHENYLMETHANOL,(4-METHOXY-PHENYL): * QUINOID * FRESH STROBILUS * CHINA * 00.00022% * H32196

DITHINE,1-2: 3-6-DIHYDRO: 4-(4-METHYL-PENT-3-ENYL): * SULFUR COMPOUND * FRUIT * * YIELD NOT STATED * N03108

DODECA-3-6-DIENOIC ACID METHYL ESTER * LIPID * STROBILUS ESSENT OIL * USA * YIELD NOT STATED * L17403

DODECA-3-6-DIENOIC ACID METHYL ESTER * LIPID * ESSENTIAL OIL * USA * YIELD NOT STATED * L23793

ERGOSTEROL * STEROID * DRIED STROBILUS * * YIELD NOT STATED * L30148

ESTRADIOL * STEROID * FRUIT * * YIELD NOT STATED * A00063

ESTRADIOL * STEROID * DRIED FRUIT * ITALY * YIELD NOT STATED * W02428

ESTRONE * STEROID * FRUIT * * YIELD NOT STATED * A00063

ESTRONE * STEROID * DRIED FRUIT * ITALY * YIELD NOT STATED * W02428

ETHYLAMINE * ALKALOID-MISC * DRIED INFLORESCENCE * GERMANY * 05.20 PPM * T07979

EUGENOL * PHENYLPROPANOID * ESSENTIAL OIL * CHINA * YIELD NOT STATED * T13226

FARNESENE * SESQUITERPENE * ESSENTIAL OIL * USA * YIELD NOT STATED * L23793

FARNESENE * SESQUITERPENE * ESSENTIAL OIL * USA(CULT) * YIELD NOT STATED * M13411

FARNESENE,BETA: * SESQUITERPENE * STROBILUS ESSENT OIL * USA * TRACES-8.59% * L17403

HUMULUS LUPULUS (CANNABACEAE)

FARNESENE,BETA: * SESQUITERPENE * DRIED STROBILUS * ESTONIA * YIELD NOT STATED * L30161

FARNESENE,BETA: TRANS: * SESQUITERPENE * CALLUS TISSUE * * YIELD NOT STATED * M20922

FARNESOL * SESQUITERPENE * ESSENTIAL OIL * CHINA * YIELD NOT STATED * T13226

FLAVORINGS * STRUCTURE UNKNOWN * STROBILUS * ENGLAND * YIELD NOT STATED * L18575

FRUCTOSE * CARBOHYDRATE * DRIED STROBILUS * ENGLAND * YIELD NOT STATED * A15491

FURANO-(2''-3''-B)-4-4'-DIHYDROXY-6''CHALCONE,DIHYDRO: 5''-(2'''-HYDROXY-ISO-PROPYL): (-): * FLAVONOID * DRIED STROBILUS * CHINA * YIELD NOT STATED * H34291

GERANIC ACID METHYL ESTER * MONOTERPENE * STROBILUS ESSENT OIL * USA * YIELD NOT STATED * L17403

GERANIOL * MONOTERPENE * STROBILUS ESSENT OIL * ARGENTINA * 01.5% * L10793

GERANIOL * MONOTERPENE * ESSENTIAL OIL * USA * YIELD NOT STATED * L23793

GERANIOL * MONOTERPENE * ESSENTIAL OIL * USA(CULT) * YIELD NOT STATED * M13411

GERANYL-ISO-BUTYRATE * MONOTERPENE * ESSENTIAL OIL * USA(CULT) * YIELD NOT STATED * M13411

GERMACRATRIENE * SESQUITERPENE * ESSENTIAL OIL * ENGLAND * YIELD NOT STATED * A13541

GERMACRENE D * SESQUITERPENE * STROBILUS ESSENT OIL * ARGENTINA * 00.6% * L10793

GLUCOSE * CARBOHYDRATE * DRIED STROBILUS * ENGLAND * YIELD NOT STATED * A15491

GLUTAMIC ACID * PROTEID * DRIED STROBILUS * RUSSIA * YIELD NOT STATED * L15018

GUAIACOL,4-VINYL: * BENZENOID * STROBILUS * GERMANY * YIELD NOT STATED * L17300

HESPERIDIN * FLAVANONE * DRIED STROBILUS * SPAIN * YIELD NOT STATED * L30239

HEXAN-1-AL * ALKANAL C5 OR MORE * STROBILUS * GERMANY * YIELD NOT STATED * L17300

HUMULUS LUPULUS (CANNABACEAE)

HEXANE,2-3-5-TRITHIA: * SULFUR COMPOUND * ESSENTIAL OIL * * YIELD NOT STATED * N08502

HEX-CIS-3-EN-1-AL * ALKENAL C5 OR MORE * STROBILUS * GERMANY * YIELD NOT STATED * L17300

HISTAMINE * ALKALOID * FRESH STROBILUS * GERMANY * 30-40 MCG/GM * A15503

HOPS BITTER ACIDS * ALICYCLIC * DRIED STROBILUS * * YIELD NOT STATED * L25907

HULUPINIC ACID * ALICYCLIC * DRIED STROBILUS * ENGLAND * YIELD NOT STATED * A15513

HULUPINIC ACID * ALICYCLIC * COMMERCIAL SAMPLE OF STROBILUS * USA * YIELD NOT STATED * H32723

HULUPONE * ALICYCLIC * DRIED STROBILUS * SWEDEN * YIELD NOT STATED * A15514

HULUPONE * ALICYCLIC * DRIED FRUIT * POLAND * 02.1-3.9% * M13244

HUMULENE * SESQUITERPENE * ESSENTIAL OIL * USA * YIELD NOT STATED * A15496

HUMULENE * SESQUITERPENE * ESSENTIAL OIL * FRANCE * YIELD NOT STATED * A15509

HUMULENE * SESQUITERPENE * DRIED STROBILUS * * YIELD NOT STATED * H31111

HUMULENE * SESQUITERPENE * FLOWERS * USA * YIELD NOT STATED * L00715

HUMULENE * SESQUITERPENE * LEAF ESSENTIAL OIL * GERMANY * YIELD NOT STATED * L03340

HUMULENE * SESQUITERPENE * STROBILUS ESSENT OIL * USA * 22.66-35.14% * L17403

HUMULENE * SESQUITERPENE * ESSENTIAL OIL * USA * YIELD NOT STATED * L23793

HUMULENE * SESQUITERPENE * DRIED ENTIRE PLANT * TURKEY * YIELD NOT STATED * M31419

HUMULENE * SESQUITERPENE * ESSENTIAL OIL * CHINA * YIELD NOT STATED * T13226

HUMULENE DIEPOXIDE A * SESQUITERPENE * ESSENTIAL OIL * USA(CULT) * YIELD NOT STATED * M13411

HUMULUS LUPULUS (CANNABACEAE)

HUMULENE EPOXIDE * SESQUITERPENE * CONE ESSENTIAL OIL * YUGOSLAVIA * YIELD NOT STATED * K21158

HUMULENE EPOXIDE II * SESQUITERPENE * ESSENTIAL OIL * JAPAN * YIELD NOT STATED * T07092

HUMULENE MONOEPOXIDE I * SESQUITERPENE * ESSENTIAL OIL * USA(CULT) * YIELD NOT STATED * M13411

HUMULENE,1-2-EPI-THIO: * SESQUITERPENE * ESSENTIAL OIL * * YIELD NOT STATED * N04531

HUMULENE,8-9-EPI-THIO: * SESQUITERPENE * ESSENTIAL OIL * * YIELD NOT STATED * N04531

HUMULENE,ALPHA: * SESQUITERPENE * STROBILUS ESSENT OIL * ARGENTINA * 36.7% * L10793

HUMULENE,ALPHA: * SESQUITERPENE * ESSENTIAL OIL * * YIELD NOT STATED * L12722

HUMULENE,ALPHA: * SESQUITERPENE * STROBILUS * GERMANY * YIELD NOT STATED * L17300

HUMULENE,ALPHA: * SESQUITERPENE * ESSENTIAL OIL * USA(CULT) * YIELD NOT STATED * M13411

HUMULENE,ALPHA: * SESQUITERPENE * ESSENTIAL OIL * NETHERLANDS * 40.0% * M29436

HUMULENE,METHYL-THIO: * SESQUITERPENE * ESSENTIAL OIL * * YIELD NOT STATED * N08538

HUMULENOL II * SESQUITERPENE * ESSENTIAL OIL * USA(CULT) * YIELD NOT STATED * M13411

HUMULENOL II * SESQUITERPENE * ESSENTIAL OIL * JAPAN * YIELD NOT STATED * T07092

HUMULINONE * ALICYCLIC * STROBILUS * ENGLAND * YIELD NOT STATED * A15497

HUMULINONE * ALICYCLIC * DRIED STROBILUS * SPAIN * YIELD NOT STATED * L30239

HUMULOL * ALICYCLIC * DRIED STROBILUS * ESTONIA * YIELD NOT STATED * L30161

HUMULONE * ALICYCLIC * DRIED STROBILUS * CZECHOSLOVAKIA * YIELD NOT STATED * A15487

HUMULONE * ALICYCLIC * DRIED STROBILUS * CANADA * YIELD NOT STATED * A15489

HUMULUS LUPULUS (CANNABACEAE)

HUMULONE * ALICYCLIC * DRIED STROBILUS * FRANCE * YIELD NOT STATED * A15490

HUMULONE * ALICYCLIC * STROBILUS * GERMANY * YIELD NOT STATED * A15493

HUMULONE * ALICYCLIC * ESSENTIAL OIL * USA * YIELD NOT STATED * A15496

HUMULONE * ALICYCLIC * FRESH STROBILUS * USA * YIELD NOT STATED * A15505

HUMULONE * ALICYCLIC * DRIED STROBILUS * JAPAN * YIELD NOT STATED * A15506

HUMULONE * ALICYCLIC * DRIED STROBILUS * * YIELD NOT STATED * A15508

HUMULONE * ALICYCLIC * DRIED STROBILUS * GERMANY * YIELD NOT STATED * A15510

HUMULONE * ALICYCLIC * DRIED STROBILUS * CANADA * YIELD NOT STATED * A15511

HUMULONE * ALICYCLIC * DRIED STROBILUS * CZECHOSLOVAKIA * YIELD NOT STATED * A15518

HUMULONE * ALICYCLIC * DRIED STROBILUS * USA * YIELD NOT STATED * A15519

HUMULONE * ALICYCLIC * DRIED STROBILUS * USA * YIELD NOT STATED * A15623

HUMULONE * ALICYCLIC * DRIED STROBILUS * USA * YIELD NOT STATED * A15628

HUMULONE * ALICYCLIC * STROBILUS * GERMANY * YIELD NOT STATED * A15632

HUMULONE * ALICYCLIC * ENTIRE PLANT * * YIELD NOT STATED * J07908

HUMULONE * ALICYCLIC * INFLORESCENCE * JAPAN(CULT) * YIELD NOT STATED * J11112

HUMULONE * ALICYCLIC * FEMALE FLOWERS * NETHERLANDS * YIELD NOT STATED * J11311

HUMULONE * ALICYCLIC * DRIED STROBILUS * BELGIUM(CULT) * YIELD NOT STATED * J16953

HUMULONE * ALICYCLIC * ENTIRE PLANT * * YIELD NOT STATED * K03530

HUMULUS LUPULUS (CANNABACEAE)

HUMULONE * ALICYCLIC * ENTIRE PLANT * * YIELD NOT STATED * K04588

HUMULONE * ALICYCLIC * ENTIRE PLANT * * YIELD NOT STATED * K04590

HUMULONE * ALICYCLIC * DRIED FRUIT * JAPAN * YIELD NOT STATED * K11173

HUMULONE * ALICYCLIC * DRIED STROBILUS * * YIELD NOT STATED * K19124

HUMULONE * ALICYCLIC * DRIED STROBILUS * * YIELD NOT STATED * K19132

HUMULONE * ALICYCLIC * DRIED STROBILUS * USA-OR(CULT) * YIELD NOT STATED * K21550

HUMULONE * ALICYCLIC * DRIED STROBILUS * GERMANY * <0.50% * K22033

HUMULONE * ALICYCLIC * DRIED STROBILUS * GERMANY * YIELD NOT STATED * K22034

HUMULONE * ALICYCLIC * DRIED STROBILUS * JAPAN * YIELD NOT STATED * K22625

HUMULONE * ALICYCLIC * DRIED STROBILUS * * YIELD NOT STATED * K23836

HUMULONE * ALICYCLIC * DRIED STROBILUS * * YIELD NOT STATED * K23838

HUMULONE * ALICYCLIC * FLOWERS * USA * YIELD NOT STATED * L00715

HUMULONE * ALICYCLIC * COMMERCIAL SAMPLE OF STROBILUS * GERMANY * YIELD NOT STATED * L13153

HUMULONE * ALICYCLIC * COMMERCIAL SAMPLE OF STROBILUS * * YIELD NOT STATED * L13330

HUMULONE * ALICYCLIC * DRIED STROBILUS * USA * YIELD NOT STATED * L25695

HUMULONE * ALICYCLIC * DRIED STROBILUS * ESTONIA * YIELD NOT STATED * L30161

HUMULONE * ALICYCLIC * DRIED STROBILUS * SLOVENIA * YIELD NOT STATED * L30238

HUMULONE * ALICYCLIC * DRIED STROBILUS * SPAIN * YIELD NOT STATED * L30239

HUMULUS LUPULUS (CANNABACEAE)

HUMULONE * ALICYCLIC * INFLORESCENCE * GERMANY * YIELD NOT STATED * M12017

HUMULONE * ALICYCLIC * DRIED ENTIRE PLANT * TURKEY * YIELD NOT STATED * M31419

HUMULONE,4-DEOXY: * ALICYCLIC * STROBILUS * GERMANY * YIELD NOT STATED * A15498

HUMULONE,4-DEOXY: * ALICYCLIC * DRIED STROBILUS * * YIELD NOT STATED * A15508

HUMULONE,4-DEOXY: * ALICYCLIC * ENTIRE PLANT * * YIELD NOT STATED * J07908

HUMULONE,4-DEOXY: * ALICYCLIC * ENTIRE PLANT * * YIELD NOT STATED * K04589

HUMULONE,4-DEOXY: * ALICYCLIC * ENTIRE PLANT * * YIELD NOT STATED * K04590

HUMULONE,4-DEOXY: * ALICYCLIC * INFLORESCENCE * GERMANY * YIELD NOT STATED * M12017

HUMULONE,DEOXY: * BENZENOID * FRESH STROBILUS * NETHERLANDS(CULT) * YIELD NOT STATED * J18378

HUMULONE,DEOXY: * BENZENOID * ENTIRE PLANT * * YIELD NOT STATED * K03530

HUMULONE,ISO: * ALICYCLIC * DRIED STROBILUS * * YIELD NOT STATED * A15624

HUMULONE,ISO: CIS: * ALICYCLIC * DRIED STROBILUS * * YIELD NOT STATED * L30337

HUMULONE,ISO: TRANS: * ALICYCLIC * FLOWERS * * YIELD NOT STATED * K14637

HUMULONE,N: * ALICYCLIC * DRIED STROBILUS * CZECH REPUBLIC * YIELD NOT STATED * L23184

HUMULONE,POST: * ALICYCLIC * DRIED STROBILUS * * YIELD NOT STATED * A15508

HUMULONE,POST: * ALICYCLIC * FEMALE FLOWERS * NETHERLANDS * YIELD NOT STATED * J11311

HUMULONE,POST: * ALICYCLIC * DRIED STROBILUS * ESTONIA * YIELD NOT STATED * L30161

HUMULONE,PRE: * ALICYCLIC * DRIED STROBILUS * * YIELD NOT STATED * A15508

HUMULUS LUPULUS (CANNABACEAE)

HUMULONE,PRE: * ALICYCLIC * FEMALE FLOWERS * NETHERLANDS * YIELD NOT STATED * J11311

HUMULONE,PRE: * ALICYCLIC * DRIED STROBILUS * ESTONIA * YIELD NOT STATED * L30161

HUMULONE,PRE: * ALICYCLIC * DRIED STROBILUS * ESTONIA * YIELD NOT STATED * L30161

HUMULONE,TRICYCLO-DEHYDRO: * DITERPENE * FRUIT * * 00.3% * N02464

HUMULUS LUPULONE DERIVATIVE 10 * ALICYCLIC * DRIED STROBILUS * * YIELD NOT STATED * H31111

HUMULUS LUPULONE DERIVATIVE 11 * ALICYCLIC * DRIED STROBILUS * * YIELD NOT STATED * H31111

HUMULUS LUPULONE DERIVATIVE 9 * ALICYCLIC * DRIED STROBILUS * * YIELD NOT STATED * H31111

HUMULUS LUPULUS CHALCONE DERIVATIVE 7 * FLAVONOID * DRIED STROBILUS * * YIELD NOT STATED * H31111

HYPEROSIDE * FLAVONOL * DRIED STROBILUS * BELGIUM(CULT) * YIELD NOT STATED * J16953

HYPEROSIDE * FLAVONOL * DRIED STROBILUS * RUSSIA * YIELD NOT STATED * L15018

IONONE,GAMMA: * SESQUITERPENE * ESSENTIAL OIL * CHINA * YIELD NOT STATED * T13226

KAEMPFEROL-3-RHAMNODIGLUCOSIDE * FLAVONOL * DRIED STROBILUS * CZECHOSLOVAKIA * YIELD NOT STATED * A15504

KAEMPFEROL-3-RHAMNOGLUCOSIDE * FLAVONOL * DRIED STROBILUS * CZECHOSLOVAKIA * YIELD NOT STATED * A15504

KAEMPFEROL-3-RHAMNOSIDE * FLAVONOL * DRIED STROBILUS * BELGIUM(CULT) * YIELD NOT STATED * J16953

LEUCOCYANIDIN * FLAVONOID * DRIED STROBILUS * FRANCE * YIELD NOT STATED * A15502

LEUCODELPHINIDIN * FLAVONOID * DRIED STROBILUS * FRANCE * YIELD NOT STATED * A15502

LIGNOCERIC ACID * LIPID * COMMERCIAL SAMPLE OF STROBILUS * * YIELD NOT STATED * L30585

LIMONENE * MONOTERPENE * ESSENTIAL OIL * FRANCE * YIELD NOT STATED * A15509

HUMULUS LUPULUS (CANNABACEAE)

LIMONENE * MONOTERPENE * CONE ESSENTIAL OIL * YUGOSLAVIA * YIELD NOT STATED * K21158

LIMONENE * MONOTERPENE * STROBILUS ESSENT OIL * ARGENTINA * 00.5% * L10793

LIMONENE * MONOTERPENE * ESSENTIAL OIL * CHINA * YIELD NOT STATED * T13226

LINALOOL * MONOTERPENE * CONE ESSENTIAL OIL * YUGOSLAVIA * YIELD NOT STATED * K21158

LINALOOL * MONOTERPENE * LEAF ESSENTIAL OIL * GERMANY * YIELD NOT STATED * L03340

LINALOOL * MONOTERPENE * STROBILUS ESSENT OIL * ARGENTINA * 01.1% * L10793

LINALOOL * MONOTERPENE * STROBILUS * GERMANY * YIELD NOT STATED * L17300

LINALOOL * MONOTERPENE * STROBILUS ESSENT OIL * USA * YIELD NOT STATED * L17403

LINALOOL * MONOTERPENE * ESSENTIAL OIL * USA * YIELD NOT STATED * L23793

LINALOOL * MONOTERPENE * ESSENTIAL OIL * USA(CULT) * YIELD NOT STATED * M13411

LINOLEIC ACID * LIPID * COMMERCIAL SAMPLE OF STROBILUS * * YIELD NOT STATED * L30585

LINOLEIC ACID * LIPID * COMMERCIAL SAMPLE OF STROBILUS * * YIELD NOT STATED * L30585

LUPULIN * STRUCTURE UNKNOWN * FRUIT * * YIELD NOT STATED * J09437

LUPULONE * ALICYCLIC * DRIED STROBILUS * CZECHOSLOVAKIA * YIELD NOT STATED * A15487

LUPULONE * ALICYCLIC * DRIED STROBILUS * CANADA * YIELD NOT STATED * A15489

LUPULONE * ALICYCLIC * STROBILUS * GERMANY * YIELD NOT STATED * A15493

LUPULONE * ALICYCLIC * DRIED STROBILUS * JAPAN * YIELD NOT STATED * A15506

LUPULONE * ALICYCLIC * DRIED STROBILUS * * YIELD NOT STATED * A15508

HUMULUS LUPULUS (CANNABACEAE)

LUPULONE * ALICYCLIC * DRIED STROBILUS * CZECHOSLOVAKIA * YIELD NOT STATED * A15518

LUPULONE * ALICYCLIC * DRIED STROBILUS * * YIELD NOT STATED * A15624

LUPULONE * ALICYCLIC * DRIED STROBILUS * USA * YIELD NOT STATED * A15628

LUPULONE * ALICYCLIC * DRIED STROBILUS * USA * YIELD NOT STATED * A15629

LUPULONE * ALICYCLIC * STROBILUS * GERMANY * YIELD NOT STATED * A15632

LUPULONE * ALICYCLIC * DRIED STROBILUS * * YIELD NOT STATED * H31111

LUPULONE * ALICYCLIC * COMMERCIAL SAMPLE OF STROBILUS * USA * YIELD NOT STATED * H32723

LUPULONE * ALICYCLIC * ENTIRE PLANT * * YIELD NOT STATED * J07908

LUPULONE * ALICYCLIC * FEMALE FLOWERS * NETHERLANDS * YIELD NOT STATED * J11311

LUPULONE * ALICYCLIC * DRIED STROBILUS * BELGIUM(CULT) * YIELD NOT STATED * J16953

LUPULONE * ALICYCLIC * FRESH STROBILUS * NETHERLANDS * YIELD NOT STATED * J17969

LUPULONE * ALICYCLIC * ENTIRE PLANT * * YIELD NOT STATED * K03530

LUPULONE * ALICYCLIC * ENTIRE PLANT * * YIELD NOT STATED * K04588

LUPULONE * ALICYCLIC * ENTIRE PLANT * * YIELD NOT STATED * K04589

LUPULONE * ALICYCLIC * ENTIRE PLANT * * YIELD NOT STATED * K04590

LUPULONE * ALICYCLIC * DRIED STROBILUS * * YIELD NOT STATED * K19124

LUPULONE * ALICYCLIC * DRIED STROBILUS * GERMANY * >0.13% * K22033

LUPULONE * ALICYCLIC * DRIED STROBILUS * GERMANY * YIELD NOT STATED * K22034

HUMULUS LUPULUS (CANNABACEAE)

LUPULONE * ALICYCLIC * DRIED STROBILUS * JAPAN * YIELD NOT STATED * K22625

LUPULONE * ALICYCLIC * DRIED STROBILUS * * YIELD NOT STATED * K23836

LUPULONE * ALICYCLIC * DRIED STROBILUS * * YIELD NOT STATED * K23838

LUPULONE * ALICYCLIC * FLOWERS * USA * YIELD NOT STATED * L00715

LUPULONE * ALICYCLIC * DRIED LEAF * GERMANY * YIELD NOT STATED * L03340

LUPULONE * ALICYCLIC * COMMERCIAL SAMPLE OF STROBILUS * GERMANY * YIELD NOT STATED * L13153

LUPULONE * ALICYCLIC * DRIED STROBILUS * ESTONIA * YIELD NOT STATED * L30161

LUPULONE * ALICYCLIC * DRIED STROBILUS * SLOVENIA * YIELD NOT STATED * L30192

LUPULONE * ALICYCLIC * DRIED STROBILUS * SLOVENIA * YIELD NOT STATED * L30238

LUPULONE * ALICYCLIC * DRIED STROBILUS * SPAIN * YIELD NOT STATED * L30239

LUPULONE * ALICYCLIC * INFLORESCENCE * GERMANY * YIELD NOT STATED * M12017

LUPULONE * ALICYCLIC * DRIED ENTIRE PLANT * TURKEY * YIELD NOT STATED * M31419

LUPULONE * ALICYCLIC * DRIED FRUIT * * YIELD NOT STATED * W01848

LUPULONE A * OXYGEN HETEROCYCLE * COMMERCIAL SAMPLE OF STROBILUS * USA * YIELD NOT STATED * H32723

LUPULONE B * OXYGEN HETEROCYCLE * COMMERCIAL SAMPLE OF STROBILUS * USA * YIELD NOT STATED * H32723

LUPULONE C * OXYGEN HETEROCYCLE * COMMERCIAL SAMPLE OF STROBILUS * USA * YIELD NOT STATED * H32723

LUPULONE D * OXYGEN HETEROCYCLE * COMMERCIAL SAMPLE OF STROBILUS * USA * YIELD NOT STATED * H32723

LUPULONE E * OXYGEN HETEROCYCLE * COMMERCIAL SAMPLE OF STROBILUS * USA * YIELD NOT STATED * H32723

HUMULUS LUPULUS (CANNABACEAE)

LUPULONE F * OXYGEN HETEROCYCLE * COMMERCIAL SAMPLE OF STROBILUS * USA * YIELD NOT STATED * H32723

LUPULONE,N: * ALICYCLIC * DRIED STROBILUS * CZECH REPUBLIC * YIELD NOT STATED * L23184

LUPULONE,POST: * ALICYCLIC * FEMALE FLOWERS * NETHERLANDS * YIELD NOT STATED * J11311

LUPULONE,PRE: * ALICYCLIC * FRUIT * * YIELD NOT STATED * A04725

LUPULONE,PRE: * ALICYCLIC * DRIED STROBILUS * * YIELD NOT STATED * A15508

LUPULONE,PRE: * ALICYCLIC * FEMALE FLOWERS * NETHERLANDS * YIELD NOT STATED * J11311

MALTOSE * CARBOHYDRATE * DRIED STROBILUS * SPAIN * YIELD NOT STATED * L30239

METHIONAL * PROTEID * STROBILUS * GERMANY * YIELD NOT STATED * L17300

METHYLAMINE * ALKALOID-MISC * DRIED INFLORESCENCE * GERMANY * 03.70 PPM * T07979

METHYL-NONYL-KETONE * ALKANONE C5 OR MORE * ESSENTIAL OIL * USA * YIELD NOT STATED * A15496

METHYL-NONYL-KETONE * ALKANONE C5 OR MORE * ESSENTIAL OIL * FRANCE * YIELD NOT STATED * A15509

MUUROLENE,ALPHA: * SESQUITERPENE * STROBILUS ESSENT OIL * ARGENTINA * 03.0% * L10793

MUUROLENE,GAMMA: * SESQUITERPENE * LEAF ESSENTIAL OIL * GERMANY * YIELD NOT STATED * L03340

MUUROLENE,GAMMA: * SESQUITERPENE * STROBILUS ESSENT OIL * USA * 00.10-0.36% * L17403

MYRCENE * MONOTERPENE * ESSENTIAL OIL * USA * YIELD NOT STATED * A15496

MYRCENE * MONOTERPENE * ESSENTIAL OIL * FRANCE * YIELD NOT STATED * A15509

MYRCENE * MONOTERPENE * ESSENTIAL OIL * * YIELD NOT STATED * K04634

MYRCENE * MONOTERPENE * ESSENTIAL OIL * * YIELD NOT STATED * K04634

HUMULUS LUPULUS (CANNABACEAE)

MYRCENE * MONOTERPENE * ESSENTIAL OIL * * YIELD NOT STATED * K04634

MYRCENE * MONOTERPENE * FRESH STROBILUS * CHINA * YIELD NOT STATED * K14934

MYRCENE * MONOTERPENE * CONE ESSENTIAL OIL * YUGOSLAVIA * YIELD NOT STATED * K21158

MYRCENE * MONOTERPENE * LEAF ESSENTIAL OIL * GERMANY * YIELD NOT STATED * L03340

MYRCENE * MONOTERPENE * STROBILUS ESSENT OIL * ARGENTINA * 25.4% * L10793

MYRCENE * MONOTERPENE * ESSENTIAL OIL * * YIELD NOT STATED * L12722

MYRCENE * MONOTERPENE * STROBILUS * GERMANY * YIELD NOT STATED * L17300

MYRCENE * MONOTERPENE * ESSENTIAL OIL * USA * YIELD NOT STATED * L23793

MYRCENE * MONOTERPENE * INFLORESCENCE * GERMANY * YIELD NOT STATED * M12017

MYRCENE * MONOTERPENE * ESSENTIAL OIL * USA(CULT) * YIELD NOT STATED * M13411

MYRCENE * MONOTERPENE * DRIED ENTIRE PLANT * TURKEY * YIELD NOT STATED * M31419

MYRCENE * MONOTERPENE * DRIED FRUIT * EUROPE * YIELD NOT STATED * N12648

MYRCENE * MONOTERPENE * ESSENTIAL OIL * CHINA * YIELD NOT STATED * T13226

MYRCENE,BETA: * MONOTERPENE * STROBILUS ESSENT OIL * USA * 27.6-49.5% * L17403

MYRCENE,BETA: * MONOTERPENE * ESSENTIAL OIL * NETHERLANDS * 42.0-58.0% * M29436

MYRISTIC ACID * LIPID * COMMERCIAL SAMPLE OF STROBILUS * * 0.00320 % * L30585

NARINGENIN,5-7-DI-O-METHYL: * FLAVANONE * DRIED STROBILUS * USA * YIELD NOT STATED * H28662

NARINGENIN,5-7-DI-O-METHYL-8-PRENYL * FLAVANONE * DRIED STROBILUS * USA * YIELD NOT STATED * H28662

HUMULUS LUPULUS (CANNABACEAE)

NARINGENIN,6-8-DIPRENYL: * FLAVANONE * DRIED STROBILUS * USA * YIELD NOT STATED * H28662

NARINGENIN,6-GERANYL: * FLAVANONE * DRIED STROBILUS * USA * YIELD NOT STATED * H28662

NARINGENIN,6-GERANYL: * FLAVANONE * DRIED STROBILUS * USA * YIELD NOT STATED * L17592

NARINGENIN,6-ISO-PENTENYL: * FLAVANONE * DRIED RESIN * JAPAN * 00.23750% * H00180

NARINGENIN,6-PRENYL: * FLAVANONE * DRIED STROBILUS * USA * YIELD NOT STATED * H28662

NARINGENIN,6-PRENYL: * FLAVANONE * DRIED STROBILUS * * YIELD NOT STATED * L04448

NARINGENIN,6-PRENYL: * FLAVANONE * DRIED STROBILUS * USA * YIELD NOT STATED * L17592

NARINGENIN,6-PRENYL: * FLAVONOID * DRIED STROBILUS * * YIELD NOT STATED * L30338

NARINGENIN,7-O-METHYL-6-PRENYL: * FLAVANONE * DRIED STROBILUS * USA * YIELD NOT STATED * H28662

NARINGENIN,7-O-METHYL-8-PRENYL: * FLAVANONE * DRIED STROBILUS * USA * YIELD NOT STATED * H28662

NARINGENIN,8-GERANYL: * FLAVANONE * DRIED STROBILUS * USA * YIELD NOT STATED * H28662

NARINGENIN,8-PRENYL: * FLAVANONE * DRIED STROBILUS * USA * YIELD NOT STATED * H28662

NARINGENIN,8-PRENYL: * FLAVANONE * DRIED STROBILUS * * YIELD NOT STATED * L04448

NARINGENIN,8-PRENYL: * FLAVANONE * DRIED STROBILUS * USA * YIELD NOT STATED * L17592

NARINGENIN,8-PRENYL: * FLAVANONE * DRIED STROBILUS * * YIELD NOT STATED * L30338

NARINGENIN,8-PRENYL: * FLAVANONE * STROBILUS * USA * YIELD NOT STATED * L30633

NEROL * MONOTERPENE * ESSENTIAL OIL * CHINA * YIELD NOT STATED * T13226

NH3 * INORGANIC * DRIED INFLORESCENCE * GERMANY * 10660 PPM * T07979

HUMULUS LUPULUS (CANNABACEAE)

NICOTIFLORIN * FLAVONOL * DRIED STROBILUS * BELGIUM(CULT) * YIELD NOT STATED * J16953

NICOTIFLORIN * FLAVONOL * DRIED BRACTS * JAPAN(CULT) * YIELD NOT STATED * L03035

NICOTIFLORIN * FLAVONOL * DRIED STROBILUS * SPAIN * YIELD NOT STATED * L30239

NONAN-1-AL * ALKANAL C5 OR MORE * STROBILUS * GERMANY * YIELD NOT STATED * L17300

NONAN-1-OL * ALKANOL C5 OR MORE * STROBILUS ESSENT OIL * USA * YIELD NOT STATED * L17403

NONAN-2-OL * ALKANOL C5 OR MORE * STROBILUS ESSENT OIL * USA * YIELD NOT STATED * L17403

NONANEDIOIC ACID * LIPID * COMMERCIAL SAMPLE OF STROBILUS * * 0.05120 % * L30585

NONA-TRANS-2-CIS-6-DIEN-1-AL * ALKENAL C5 OR MORE * STROBILUS * GERMANY * YIELD NOT STATED * L17300

O * LEUCOANTHOCYANINS PRESENT * PART NOT SPECIFIED * ROUMANIA * YIELD NOT STATED * W00784

OCIMENE,BETA: * MONOTERPENE * STROBILUS ESSENT OIL * USA * 00.078-1.27% * L17403

OCIMENE,TRANS: * MONOTERPENE * STROBILUS ESSENT OIL * ARGENTINA * 01.0% * L10793

OCT-1-EN-3-ONE * ALKENONE C5 OR MORE * STROBILUS * GERMANY * YIELD NOT STATED * L17300

OCTA-CIS-1-5-DIEN-3-ONE * ALKENONE C5 OR MORE * STROBILUS * GERMANY * YIELD NOT STATED * L17300

OCTADECANOIC ACID METHYL ESTER * LIPID * DRIED STROBILUS * ESTONIA * YIELD NOT STATED * L30161

OCTAN-1-AL * ALKANAL C5 OR MORE * STROBILUS * GERMANY * YIELD NOT STATED * L17300

OCTANOIC ACID METHYL ESTER * LIPID * STROBILUS ESSENT OIL * USA * 00.10-1.26% * L17403

OLEIC ACID * LIPID * COMMERCIAL SAMPLE OF STROBILUS * * YIELD NOT STATED * L30585

PALMITIC ACID * LIPID * DRIED STROBILUS * ESTONIA * YIELD NOT STATED * L30161

HUMULUS LUPULUS (CANNABACEAE)

PALMITIC ACID * LIPID * COMMERCIAL SAMPLE OF STROBILUS * * 0.10240 % * L30585

PAPAVERINE (?) * ISOQUINOLINE ALKALOID * DRIED STROBILUS * RUSSIA * YIELD NOT STATED * L15018

PENTADECAN-2-ONE * ALKANONE C5 OR MORE * LEAF ESSENTIAL OIL * GERMANY * YIELD NOT STATED * L03340

PENTANE,2-3-4-TRITHIA: * SULFUR COMPOUND * ESSENTIAL OIL * ENGLAND * YIELD NOT STATED * L02773

PEROXIDASE * PROTEID * FRESH LEAF * * YIELD NOT STATED * L24897

PHENYL]-3-(4-HYDROXY-PHENYL)-PROPENONE,1-[2-4-DIHYDROXY-3-(3-HYDROXY-2-METHOXY-3-METHYL-BUTYL)-6-METHOXY: * FLAVONOID * COMMERCIAL SAMPLE OF STROBILUS * USA * YIELD NOT STATED * H32723

PHENYLETHANOL * BENZENOID * ESSENTIAL OIL * CHINA * YIELD NOT STATED * T13226

PHLORISOBUTYROPHENONE * ALICYCLIC * FRESH STROBILUS * NETHERLANDS * YIELD NOT STATED * J17969

PHLORISOBUTYROPHENONE,4-PRENYL: * BENZENOID * FRESH STROBILUS * NETHERLANDS(CULT) * YIELD NOT STATED * J18378

PHLOR-ISO-VALEROPHENONE * BENZENOID * FRESH STROBILUS * NETHERLANDS * YIELD NOT STATED * J17969

PHLOR-ISO-VALEROPHENONE,4-PRENYL: * BENZENOID * FRESH STROBILUS * NETHERLANDS(CULT) * YIELD NOT STATED * J18378

PINENE,ALPHA: * MONOTERPENE * CONE ESSENTIAL OIL * YUGOSLAVIA * YIELD NOT STATED * K21158

PINENE,ALPHA: * MONOTERPENE * STROBILUS ESSENT OIL * ARGENTINA * 00.3% * L10793

PINENE,BETA: * MONOTERPENE * CONE ESSENTIAL OIL * YUGOSLAVIA * YIELD NOT STATED * K21158

PINENE,BETA: * MONOTERPENE * STROBILUS ESSENT OIL * ARGENTINA * 00.4% * L10793

PINENE,BETA: * MONOTERPENE * DRIED ENTIRE PLANT * TURKEY * YIELD NOT STATED * M31419

PINENE,GAMMA: * MONOTERPENE * ESSENTIAL OIL * FRANCE * YIELD NOT STATED * A15509

PIPERIDINE * ALKALOID * DRIED INFLORESCENCE * GERMANY * 02.50 PPM * T07979

HUMULUS LUPULUS (CANNABACEAE)

POLYPHENOLIC SUBSTANCES * STRUCTURE UNKNOWN * STROBILUS * JAPAN * YIELD NOT STATED * L15882

POSTHUMULONE * BENZENOID * INFLORESCENCE * GERMANY * YIELD NOT STATED * M12017

PREHUMULONE * BENZENOID * INFLORESCENCE * GERMANY * YIELD NOT STATED * M12017

PRELUPULONE * ALICYCLIC * INFLORESCENCE * GERMANY * YIELD NOT STATED * M12017

PROANTHOCYANIDIN * FLAVONOID * FRESH STROBILUS * GERMANY * YIELD NOT STATED * A15512

PROCYANIDIN B-1 * FLAVONOID * DRIED FRUIT * IRELAND * YIELD NOT STATED * N14050

PROCYANIDIN B-2 * FLAVONOID * DRIED FRUIT * IRELAND * YIELD NOT STATED * N14050

PROCYANIDIN B-3 * FLAVONOID * DRIED FRUIT * IRELAND * YIELD NOT STATED * N14050

PROCYANIDIN B-3 * FLAVONOID * DRIED FRUIT * IRELAND * YIELD NOT STATED * N14050

PROCYANIDIN B-4 * FLAVONOID * DRIED FRUIT * IRELAND * YIELD NOT STATED * N14050

PRODELPHINIDIN B-3 * FLAVONOID * DRIED FRUIT * IRELAND * YIELD NOT STATED * N14050

PROPANOATE,2-METHYL: ETHYL: * ALKANE TO C4 * STROBILUS * GERMANY * YIELD NOT STATED * L17300

PYRROLIDINE * ALKALOID * DRIED INFLORESCENCE * GERMANY * 01.00 PPM * T07979

QUERCETIN * FLAVONOL * DRIED STROBILUS * RUSSIA * YIELD NOT STATED * L15018

QUERCETIN-3-RHAMNODIGLUCOSIDE * FLAVONOL * DRIED STROBILUS * CZECHOSLOVAKIA * YIELD NOT STATED * A15504

QUERCITRIN * FLAVONOL * DRIED STROBILUS * BELGIUM(CULT) * YIELD NOT STATED * J16953

QUERCITRIN,ISO: * FLAVONOL * DRIED STROBILUS * GERMANY * YIELD NOT STATED * A15494

QUERCITRIN,ISO: * FLAVONOL * DRIED STROBILUS * CZECHOSLOVAKIA * YIELD NOT STATED * A15504

HUMULUS LUPULUS (CANNABACEAE)

QUERCITRIN,ISO: * FLAVONOL * DRIED STROBILUS * BELGIUM(CULT) * YIELD NOT STATED * J16953

QUERCITRIN,ISO: * FLAVONOL * DRIED BRACTS * JAPAN(CULT) * YIELD NOT STATED * L03035

RAFFINOSE * CARBOHYDRATE * DRIED STROBILUS * ENGLAND * YIELD NOT STATED * A15491

RESVERATROL,TRANS: * STILBENE * FRESH GLAND(MOLTING) * USA * YIELD NOT STATED * L30139

RESVERATROL,TRANS: * STILBENE * FRESH STROBILUS * CZECK REPUBLIC * YIELD NOT STATED * L30139

RESVERATROL,TRANS: * STILBENE * FRESH STROBILUS * GERMANY * YIELD NOT STATED * L30139

RUTIN * FLAVONOL * DRIED STROBILUS * GERMANY * YIELD NOT STATED * A15494

RUTIN * FLAVONOL * DRIED STROBILUS * CZECHOSLOVAKIA * YIELD NOT STATED * A15504

RUTIN * FLAVONOL * DRIED STROBILUS * BELGIUM(CULT) * YIELD NOT STATED * J16953

RUTIN * FLAVONOL * DRIED BRACTS * JAPAN(CULT) * YIELD NOT STATED * L03035

RUTIN * FLAVONOL * DRIED STROBILUS * RUSSIA * YIELD NOT STATED * L15018

RUTIN * FLAVONOL * DRIED STROBILUS * SPAIN * YIELD NOT STATED * L30239

SABINENE * MONOTERPENE * STROBILUS ESSENT OIL * ARGENTINA * 01.4% * L10793

SELINA-3-7(11)-DIENE * SESQUITERPENE * DRIED FRUIT * ENGLAND * YIELD NOT STATED * A13561

SELINA-4(14)-7(11)-DIENE * SESQUITERPENE * DRIED FRUIT * ENGLAND * YIELD NOT STATED * A13561

SELINENE,ALPHA: * SESQUITERPENE * LEAF ESSENTIAL OIL * GERMANY * YIELD NOT STATED * L03340

SELINENE,ALPHA: * SESQUITERPENE * STROBILUS ESSENT OIL * ARGENTINA * 01.0% * L10793

SELINENE,BETA: * SESQUITERPENE * LEAF ESSENTIAL OIL * GERMANY * YIELD NOT STATED * L03340

HUMULUS LUPULUS (CANNABACEAE)

SELINENE,BETA: * SESQUITERPENE * STROBILUS ESSENT OIL * ARGENTINA * 01.2% * L10793

SELINENE,BETA: * SESQUITERPENE * STROBILUS ESSENT OIL * USA * 00.12-1.75% * L17403

SELINENE,GAMMA: * SESQUITERPENE * STROBILUS ESSENT OIL * USA * 00.36-1.75% * L17403

SITOSTEROL,BETA: * STEROID * ENTIRE PLANT * * YIELD NOT STATED * K04590

SITOSTEROL,BETA: * STEROID * DRIED STROBILUS * ESTONIA * YIELD NOT STATED * L30161

SPIRAEOSIDE * FLAVONOL * DRIED STROBILUS * SPAIN * YIELD NOT STATED * L30239

SQUALENE * TRITERPENE * ENTIRE PLANT * * YIELD NOT STATED * K04590

STACHYOSE * CARBOHYDRATE * DRIED STROBILUS * ENGLAND * YIELD NOT STATED * A15491

STEARIC ACID * LIPID * COMMERCIAL SAMPLE OF STROBILUS * * YIELD NOT STATED * L30585

SUCROSE * CARBOHYDRATE * DRIED STROBILUS * ENGLAND * YIELD NOT STATED * A15491

TERPINENE,ALPHA: * MONOTERPENE * STROBILUS ESSENT OIL * ARGENTINA * 00.5% * L10793

TERPINEOL,ALPHA: * MONOTERPENE * ESSENTIAL OIL * USA(CULT) * YIELD NOT STATED * M13411

THIA-HEX-2-ENE,5: 2-METHYL: * SULFUR COMPOUND * ESSENTIAL OIL * * YIELD NOT STATED * N08538

THIOPHENE,3-(4-METHYL-PENT-3-ENYL): * SULFUR COMPOUND * ESSENTIAL OIL * ENGLAND * YIELD NOT STATED * H00078

THIOPHENE,3-(4-METHYL-PENT-3-ENYL): * SULFUR COMPOUND * FRUIT * * YIELD NOT STATED * N03108

TOCOPHEROL,ALPHA: * OXYGEN HETEROCYCLE * FRESH STROBILUS * JAPAN * YIELD NOT STATED * K18347

TOCOPHEROL,ALPHA: * OXYGEN HETEROCYCLE * DRIED STROBILUS * JAPAN * YIELD NOT STATED * K18347

TOLUENE,BUTYLATED-HYDROXY: * BENZENOID * FRESH STROBILUS * CHINA * YIELD NOT STATED * K14934

HUMULUS LUPULUS (CANNABACEAE)

TRICYCLOISOHUMULONE * DITERPENE * DRIED INFLORESCENCE * * YIELD NOT STATED * N05181

TRIDECAN-2-ONE * ALKANONE C5 OR MORE * STROBILUS ESSENT OIL * USA * YIELD NOT STATED * L17403

TYROSINE * PROTEID * DRIED STROBILUS * RUSSIA * YIELD NOT STATED * L15018

UNDECA-1-TRANS-3-CIS-5-9-TETRAENE * ALKENE C5 OR MORE * STROBILUS * GERMANY * YIELD NOT STATED * L17300

UNDECA-1-TRANS-3-CIS-5-TRIENE * ALKENE C5 OR MORE * STROBILUS * GERMANY * YIELD NOT STATED * L17300

UNDECAN-2-AL * ALKANAL C5 OR MORE * ESSENTIAL OIL * CHINA * YIELD NOT STATED * T13226

VALEROPHENONE SYNTHASE * PROTEID * FRESH STROBILUS * GERMANY * YIELD NOT STATED * J19772

XANTHOGALENOL * FLAVONOID * DRIED STROBILUS * USA * YIELD NOT STATED * H28662

XANTHOHUMOL * FLAVONOID * DRIED STROBILUS * ENGLAND * YIELD NOT STATED * A15513

XANTHOHUMOL * FLAVONOID * DRIED RESIN * JAPAN * 07.87500% * H00180

XANTHOHUMOL * FLAVONOID * DRIED STROBILUS * CZECHOSLOVAKIA * 00.03495% * H20962

XANTHOHUMOL * FLAVONOID * DRIED STROBILUS * USA * YIELD NOT STATED * H28662

XANTHOHUMOL * FLAVONOID * DRIED STROBILUS * * YIELD NOT STATED * H31111

XANTHOHUMOL * FLAVONOID * COMMERCIAL SAMPLE OF STROBILUS * USA * YIELD NOT STATED * H32723

XANTHOHUMOL * FLAVONOID * INFLORESCENCE * JAPAN(CULT) * YIELD NOT STATED * J11112

XANTHOHUMOL * FLAVONOID * DRIED STROBILUS * GERMANY * <0.03% * K22033

XANTHOHUMOL * FLAVONOID * DRIED STROBILUS * * YIELD NOT STATED * K23836

XANTHOHUMOL * FLAVONOID * DRIED STROBILUS * * YIELD NOT STATED * K23838

HUMULUS LUPULUS (CANNABACEAE)

XANTHOHUMOL * FLAVONOID * DRIED STROBILUS * USA-OR * YIELD NOT STATED * L03979

XANTHOHUMOL * FLAVONOID * DRIED STROBILUS * * YIELD NOT STATED * L04448

XANTHOHUMOL * FLAVONOID * DRIED STROBILUS * * YIELD NOT STATED * L08929

XANTHOHUMOL * FLAVONOID * DRIED STROBILUS * * YIELD NOT STATED * L14681

XANTHOHUMOL * FLAVONOID * DRIED STROBILUS * USA * YIELD NOT STATED * L17592

XANTHOHUMOL * FLAVONOID * STROBILUS * GERMANY * YIELD NOT STATED * L18555

XANTHOHUMOL * FLAVONOID * FRESH SPLEEN * GERMANY * YIELD NOT STATED * L26912

XANTHOHUMOL * FLAVONOID * FRESH STROBILUS * GERMANY * YIELD NOT STATED * L26914

XANTHOHUMOL * FLAVONOID * FRESH STROBILUS * GERMANY * YIELD NOT STATED * L28199

XANTHOHUMOL * FLAVONOID * DRIED STROBILUS * ESTONIA * YIELD NOT STATED * L30161

XANTHOHUMOL * FLAVONOID * DRIED STROBILUS * * YIELD NOT STATED * L30188

XANTHOHUMOL * FLAVONOID * DRIED STROBILUS * SLOVENIA * YIELD NOT STATED * L30192

XANTHOHUMOL * FLAVONOID * DRIED STROBILUS * SLOVENIA * YIELD NOT STATED * L30238

XANTHOHUMOL * FLAVONOID * DRIED STROBILUS * SPAIN * YIELD NOT STATED * L30239

XANTHOHUMOL * FLAVONOID * FROZEN FRUIT * JAPAN * 00.00155 * M19982

XANTHOHUMOL * FLAVONOID * FRESH STROBILUS * * YIELD NOT STATED * T13849

XANTHOHUMOL B * FLAVONOID * DRIED STROBILUS * CZECHOSLOVAKIA * 00.0019% * H20962

XANTHOHUMOL B * FLAVONOID * DRIED STROBILUS * USA * YIELD NOT STATED * H28662

HUMULUS LUPULUS (CANNABACEAE)

XANTHOHUMOL B * FLAVONOID * DRIED STROBILUS * * YIELD NOT STATED * H31111

XANTHOHUMOL B * FLAVONOID * COMMERCIAL SAMPLE OF STROBILUS * USA * YIELD NOT STATED * H32723

XANTHOHUMOL C * FLAVONOID * DRIED STROBILUS * USA * YIELD NOT STATED * H28662

XANTHOHUMOL D * FLAVONOID * DRIED STROBILUS * USA * YIELD NOT STATED * H28662

XANTHOHUMOL D * FLAVONOID * DRIED STROBILUS * * YIELD NOT STATED * H31111

XANTHOHUMOL D * FLAVONOID * COMMERCIAL SAMPLE OF STROBILUS * USA * YIELD NOT STATED * H32723

XANTHOHUMOL E * FLAVONOID * DRIED STROBILUS * USA * YIELD NOT STATED * H28662

XANTHOHUMOL,4'-O-METHYL: * FLAVONOID * DRIED STROBILUS * USA * YIELD NOT STATED * H28662

XANTHOHUMOL,5'-PRENYL: * FLAVONOID * DRIED STROBILUS * USA * YIELD NOT STATED * H28662

XANTHOHUMOL,ALPHA-BETA-DIHYDRO: * FLAVONOID * COMMERCIAL SAMPLE OF STROBILUS * GERMANY * YIELD NOT STATED * H24654

XANTHOHUMOL,DEMETHYL: * FLAVONOID * DRIED STROBILUS * USA * YIELD NOT STATED * H28662

XANTHOHUMOL,DEMETHYL: * FLAVONOID * DRIED STROBILUS * * YIELD NOT STATED * L14681

XANTHOHUMOL,DEMETHYL: * FLAVONOID * DRIED STROBILUS * USA * YIELD NOT STATED * L17592

XANTHOHUMOL,DEMETHYL: * FLAVONOID * DRIED STROBILUS * SPAIN * YIELD NOT STATED * L30239

XANTHOHUMOL,DEMETHYL: * FLAVONOID * FRESH STROBILUS * * YIELD NOT STATED * T13849

XANTHOHUMOL,DIHYDRO: * FLAVONOID * COMMERCIAL SAMPLE OF STROBILUS * USA * YIELD NOT STATED * H32723

XANTHOHUMOL,DIHYDROXY: * FLAVONOID * DRIED STROBILUS * * YIELD NOT STATED * H31111

XANTHOHUMOL,ISO: * FLAVANONE * DRIED RESIN * JAPAN * 04.25000% * H00180

HUMULUS LUPULUS (CANNABACEAE)

XANTHOHUMOL,ISO: * FLAVANONE * DRIED STROBILUS * USA * YIELD NOT STATED * H28662

XANTHOHUMOL,ISO: * FLAVANONE * DRIED STROBILUS * USA-OR * YIELD NOT STATED * L03979

XANTHOHUMOL,ISO: * FLAVANONE * FRESH STROBILUS * GERMANY * YIELD NOT STATED * L26914

XANTHOHUMOL,ISO: * FLAVANONE * DRIED STROBILUS * ESTONIA * YIELD NOT STATED * L30161

XANTHOHUMOL,ISO: * FLAVANONE * DRIED STROBILUS * SLOVENIA * YIELD NOT STATED * L30192

XANTHOHUMOL,ISO: * FLAVANONE * DRIED STROBILUS * SLOVENIA * YIELD NOT STATED * L30238

XANTHOHUMOL,ISO: * FLAVANONE * DRIED STROBILUS * SPAIN * YIELD NOT STATED * L30239

XANTHOHUMOL,ISO: * FLAVANONE * FROZEN FRUIT * JAPAN * 00.18375% * M19982

XANTHOHUMOL,ISO:# * FLAVONOID * DRIED STROBILUS * USA * YIELD NOT STATED * L17592

XANTHOHUMUL,DEMETHYL: * FLAVONOID * DRIED STROBILUS * * YIELD NOT STATED * L08929

XANTHOHUMUL,ISO: * FLAVANONE * DRIED STROBILUS * * YIELD NOT STATED * L04448

HUMULUS LUPULUS CULTIVARS (CANNABACEAE)

CADINENE,DELTA: * SESQUITERPENE * ESSENTIAL OIL * BELGIUM(CULT) * 01.2-3.1% * K09698

CADINENE,GAMMA: * SESQUITERPENE * ESSENTIAL OIL * BELGIUM(CULT) * 00.9-2.7% * K09698

CARYOPHYLLENE,BETA: * SESQUITERPENE * ESSENTIAL OIL * BELGIUM(CULT) * 09.2-18.6% * K09698

CARYOPHYLLENE,BETA: OXIDE * SESQUITERPENE * ESSENTIAL OIL * BELGIUM(CULT) * 00.2-2.8% * K09698

HUMULENE OXIDE,ALPHA: * SESQUITERPENE * ESSENTIAL OIL * BELGIUM(CULT) * 00.4-5.9% * K09698

HUMULENE,ALPHA: * SESQUITERPENE * ESSENTIAL OIL * BELGIUM(CULT) * 01.6-53.8% * K09698

HUMULUS LUPULUS CULTIVARS (CANNABACEAE)

HUMULONE * ALICYCLIC * DRIED STROBILUS * BELGIUM * YIELD NOT STATED * L30237

MYRCENE,BETA: * MONOTERPENE * ESSENTIAL OIL * BELGIUM(CULT) * 01.0-65.6% * K09698

PICEID,CIS: * STILBENE * DRIED STROBILUS * BELGIUM * YIELD NOT STATED * L30237

PICEID,TRANS: * STILBENE * DRIED STROBILUS * BELGIUM * YIELD NOT STATED * L30237

RESVERATROL,TRANS: * STILBENE * DRIED STROBILUS * BELGIUM * YIELD NOT STATED * L30237

SELINENE,ALPHA: * SESQUITERPENE * ESSENTIAL OIL * BELGIUM(CULT) * 00.8-8.5% * K09698

HUMULUS LUPULUS CV,TOMAHAWK (CANNABACEAE)

CATECHIN,(+): * FLAVONOID * DRIED STROBILUS * * YIELD NOT STATED * L30495

CATECHIN,EPI: (-): * FLAVONOID * DRIED STROBILUS * * YIELD NOT STATED * L30495

KAEMPFEROL * FLAVONOL * DRIED STROBILUS * * YIELD NOT STATED * L30495

MYRCETIN * FLAVONOL * DRIED STROBILUS * * YIELD NOT STATED * L30495

PICEID,CIS: * STILBENE * DRIED STROBILUS * * YIELD NOT STATED * L30495

PICEID,TRANS: * STILBENE * DRIED STROBILUS * * YIELD NOT STATED * L30495

QUERCETIN * FLAVONOL * DRIED STROBILUS * * YIELD NOT STATED * L30495

RESVERATROL,TRANS: * STILBENE * DRIED STROBILUS * * YIELD NOT STATED * L30495

RUTIN * FLAVONOL * DRIED STROBILUS * * YIELD NOT STATED * L30495

HUMULUS LUPULUS CV. NUGGET (CANNABACEAE)

NARINGENIN,6-PRENYL: * FLAVANONE * DRIED STROBILUS * USA * YIELD NOT STATED * L27210

NARINGENIN,8-PRENYL: * FLAVANONE * DRIED STROBILUS * USA * YIELD NOT STATED * L27210

XANTHOHUMOL,DEMETHYL: * FLAVONOID * DRIED STROBILUS * USA * YIELD NOT STATED * L27210

HUMULUS LUPULUS CV.AURORA (CANNABACEAE)

BERGAMOTENE,ALPHA: * SESQUITERPENE * STROBILUS ESSENT OIL * SLOVENIA * YIELD NOT STATED * L14661

CADINENE,GAMMA: * SESQUITERPENE * STROBILUS ESSENT OIL * SLOVENIA * YIELD NOT STATED * L14661

DEC-TRANS-4-ENOIC ACID METHYL ESTER * LIPID * STROBILUS ESSENT OIL * SLOVENIA * YIELD NOT STATED * L14661

HUMULENE,ALPHA: * SESQUITERPENE * STROBILUS ESSENT OIL * SLOVENIA * YIELD NOT STATED * L14661

LINALOOL * MONOTERPENE * STROBILUS ESSENT OIL * SLOVENIA * YIELD NOT STATED * L14661

MUUROLENE,GAMMA: * SESQUITERPENE * STROBILUS ESSENT OIL * SLOVENIA * YIELD NOT STATED * L14661

MYRCENE * MONOTERPENE * STROBILUS ESSENT OIL * SLOVENIA * YIELD NOT STATED * L14661

NONANOIC ACID METHYL ESTER * LIPID * STROBILUS ESSENT OIL * SLOVENIA * YIELD NOT STATED * L14661

OCTANOIC ACID METHYL ESTER * LIPID * STROBILUS ESSENT OIL * SLOVENIA * YIELD NOT STATED * L14661

SELINENE,ALPHA: * SESQUITERPENE * STROBILUS ESSENT OIL * SLOVENIA * YIELD NOT STATED * L14661

UNDECAN-2-ONE * ALKANONE C5 OR MORE * STROBILUS ESSENT OIL * SLOVENIA * YIELD NOT STATED * L14661

HUMULUS LUPULUS CV.BULLION (CANNABACEAE)

COHUMULONE * ALICYCLIC * DRIED STROBILUS * ENGLAND * YIELD NOT STATED * A15492

HUMULUS LUPULUS CV.EASTWELL GOLDINGS (CANNABACEAE)

XANTHOHUMOL * FLAVONOID * DRIED STROBILUS * ENGLAND * YIELD NOT STATED * A15515

HUMULUS LUPULUS CV.HALLERTAU (CANNABACEAE)

HUMULONE * ALICYCLIC * FRESH STROBILUS * * YIELD NOT STATED * K19075

HUMULUS LUPULUS CV.HALLERTAUER MAGNUM (CANNABACEAE)

HUMULONE * ALICYCLIC * FRESH ENTIRE PLANT * GERMANY * YIELD NOT STATED * L26193

LUPULONE * ALICYCLIC * FRESH ENTIRE PLANT * GERMANY * YIELD NOT STATED * L26193

HUMULUS LUPULUS CV.HALLERTAUER TAURUS (CANNABACEAE)

HUMULONE * ALICYCLIC * FRESH SPROUTS * GERMANY * YIELD NOT STATED * L04327

HUMULUS LUPULUS CV.HERSBRUCKER SPAET (CANNABACEAE)

AROMADENDRENE * SESQUITERPENE * DRIED FRUIT * GERMANY * 00.0098% * N17006

AROMADENDRENE EPOXIDE * SESQUITERPENE * DRIED FRUIT * GERMANY * 00.0020% * N17006

AROMADENDRENE,ALLO: * SESQUITERPENE * DRIED FRUIT * GERMANY * 00.0077% * N17006

AROMADENDRENE,ALLO: EPOXIDE * SESQUITERPENE * DRIED FRUIT * GERMANY * 00.0012% * N17006

BICYCLOGERMACRENE * SESQUITERPENE * DRIED FRUIT * GERMANY * 00.0010% * N17006

BULNESENE,ALPHA: * SESQUITERPENE * DRIED FRUIT * GERMANY * 00.0020% * N17006

CADALENE * SESQUITERPENE * DRIED FRUIT * GERMANY * 00.0002% * N17006

CADINENE,ALPHA: * SESQUITERPENE * DRIED FRUIT * GERMANY * 00.0010% * N17006

CADINENE,DELTA: * SESQUITERPENE * DRIED FRUIT * GERMANY * 00.0060% * N17006

CADINENE,GAMMA: * SESQUITERPENE * DRIED FRUIT * GERMANY * 00.0060% * N17006

CADINOL,ALPHA: * SESQUITERPENE * DRIED FRUIT * GERMANY * 00.0015% * N17006

CADINOL,DELTA: * SESQUITERPENE * DRIED FRUIT * GERMANY * 00.0036% * N17006

HUMULUS LUPULUS CV.HERSBRUCKER SPAET (CANNABACEAE)

CADINOL,T: * SESQUITERPENE * DRIED FRUIT * GERMANY * 00.0009% * N17006

CALAMENENE * SESQUITERPENE * DRIED FRUIT * GERMANY * 00.0002% * N17006

CARYOLAN-1-OL * SESQUITERPENE * DRIED FRUIT * GERMANY * 00.0005% * N17006

CARYOPHYLLENE OXIDE * SESQUITERPENE * DRIED FRUIT * GERMANY * 00.0024% * N17006

CARYOPHYLLENE,BETA: * SESQUITERPENE * DRIED FRUIT * GERMANY * 00.052% * N17006

COPAENE,ALPHA: * SESQUITERPENE * DRIED FRUIT * GERMANY * 00.0015% * N17006

CUBEBENE,ALPHA: * SESQUITERPENE * DRIED FRUIT * GERMANY * 00.0005% * N17006

CUBEBENE,BETA: * SESQUITERPENE * DRIED FRUIT * GERMANY * 00.0005% * N17006

CUBENOL * SESQUITERPENE * DRIED FRUIT * GERMANY * 00.0017% * N17006

CUBENOL,EPI: * SESQUITERPENE * DRIED FRUIT * GERMANY * 00.0013% * N17006

ELEMENE,GAMMA: * SESQUITERPENE * DRIED FRUIT * GERMANY * 00.0016% * N17006

EUDESMOL,ALPHA: * SESQUITERPENE * DRIED FRUIT * GERMANY * 00.0065% * N17006

EUDESMOL,BETA: * SESQUITERPENE * DRIED FRUIT * GERMANY * 00.0060% * N17006

EUDESMOL,GAMMA: * SESQUITERPENE * DRIED FRUIT * GERMANY * 00.0018% * N17006

FARNESENE,BETA: * SESQUITERPENE * DRIED FRUIT * GERMANY * 00.0035% * N17006

FARNESOL * SESQUITERPENE * DRIED FRUIT * GERMANY * 00.0017% * N17006

GERMACRENE B * SESQUITERPENE * DRIED FRUIT * GERMANY * 00.0105% * N17006

GERMACRENE D * SESQUITERPENE * DRIED FRUIT * GERMANY * 00.0015% * N17006

HUMULUS LUPULUS CV.HERSBRUCKER SPAET (CANNABACEAE)

GLOBULOL * SESQUITERPENE * DRIED FRUIT * GERMANY * 00.0027% * N17006

GLOBULOL,EPI: * SESQUITERPENE * DRIED FRUIT * GERMANY * 00.0005% * N17006

GUAIENE,ALPHA: * SESQUITERPENE * DRIED FRUIT * GERMANY * 00.0016% * N17006

GURJUNENE,ALPHA: * SESQUITERPENE * DRIED FRUIT * GERMANY * 00.0011% * N17006

HUMULENE * SESQUITERPENE * DRIED FRUIT * GERMANY * 00.12% * N17006

HUMULENE EPOXIDE I * SESQUITERPENE * DRIED FRUIT * GERMANY * 00.0007% * N17006

HUMULENE EPOXIDE II * SESQUITERPENE * DRIED FRUIT * GERMANY * 00.0071% * N17006

HUMULENOL II * SESQUITERPENE * DRIED FRUIT * GERMANY * 00.0015% * N17006

JUNIPER CAMPHOR * SESQUITERPENE * DRIED FRUIT * GERMANY * 00.0013% * N17006

LEDOL * SESQUITERPENE * DRIED FRUIT * GERMANY * 00.0008% * N17006

MUUROLENE,ALPHA: * SESQUITERPENE * DRIED FRUIT * GERMANY * 00.0035% * N17006

MUUROLENE,GAMMA: * SESQUITERPENE * DRIED FRUIT * GERMANY * 00.017% * N17006

PALUSTROL * SESQUITERPENE * DRIED FRUIT * GERMANY * 00.0007% * N17006

SELIN-11-EN-4-OL * SESQUITERPENE * DRIED FRUIT * GERMANY * 00.0029% * N17006

SELINA-3-7-DIENE * SESQUITERPENE * DRIED FRUIT * GERMANY * 00.0195% * N17006

SELINA-4-7-DIENE * SESQUITERPENE * DRIED FRUIT * GERMANY * 00.0145% * N17006

SELINENE,ALPHA: * SESQUITERPENE * DRIED FRUIT * GERMANY * 00.017% * N17006

SELINENE,BETA: * SESQUITERPENE * DRIED FRUIT * GERMANY * 00.015% * N17006

HUMULUS LUPULUS CV.HERSBRUCKER SPAET (CANNABACEAE)

SELINENE,BETA: EPOXIDE I * SESQUITERPENE * DRIED FRUIT * GERMANY * 00.0002% * N17006

SELINENE,DELTA: * SESQUITERPENE * DRIED FRUIT * GERMANY * 00.0055% * N17006

SPATHULENOL * SESQUITERPENE * DRIED FRUIT * GERMANY * 00.0010% * N17006

VIRIDIFLORENE * SESQUITERPENE * DRIED FRUIT * GERMANY * 00.006% * N17006

VIRIDIFLOROL * SESQUITERPENE * DRIED FRUIT * GERMANY * 00.0016% * N17006

YLANGENE,ALPHA: * SESQUITERPENE * DRIED FRUIT * GERMANY * 00.0005% * N17006

HUMULUS LUPULUS CV.KENT FUGGIE (CANNABACEAE)

ADIPIC ACID,ALPHA-AMINO: * PROTEID * FRESH STROBILUS * ENGLAND * YIELD NOT STATED * A15517

ALANINE,ALPHA: * PROTEID * FRESH STROBILUS * ENGLAND * YIELD NOT STATED * A15517

ALANINE,BETA: * PROTEID * FRESH STROBILUS * ENGLAND * YIELD NOT STATED * A15517

ALANINE,PHENYL: * PROTEID * FRESH STROBILUS * ENGLAND * YIELD NOT STATED * A15517

ARGININE * PROTEID * FRESH STROBILUS * ENGLAND * YIELD NOT STATED * A15517

ASPARAGINE * PROTEID * FRESH STROBILUS * ENGLAND * YIELD NOT STATED * A15517

ASPARTIC ACID * PROTEID * FRESH STROBILUS * ENGLAND * YIELD NOT STATED * A15517

BUTYRIC ACID,GAMMA-AMINO: * PROTEID * FRESH STROBILUS * ENGLAND * YIELD NOT STATED * A15517

CYSTINE * QUINOLIZIDINE ALKALOID * FRESH STROBILUS * ENGLAND * YIELD NOT STATED * A15517

GLUTAMIC ACID,GAMMA-METHYLENE: * PROTEID * FRESH STROBILUS * ENGLAND * YIELD NOT STATED * A15517

GLUTAMINE,GAMMA-METHYLENE: * PROTEID * FRESH STROBILUS * ENGLAND * YIELD NOT STATED * A15517

HUMULUS LUPULUS CV.KENT FUGGIE (CANNABACEAE)

HISTIDINE * PROTEID * FRESH STROBILUS * ENGLAND * YIELD NOT STATED * A15517

LEUCINE * PROTEID * FRESH STROBILUS * ENGLAND * YIELD NOT STATED * A15517

LEUCINE,ISO: * PROTEID * FRESH STROBILUS * ENGLAND * YIELD NOT STATED * A15517

LYSINE * PROTEID * FRESH STROBILUS * ENGLAND * YIELD NOT STATED * A15517

PIPECOLIC ACID * PROTEID * FRESH STROBILUS * ENGLAND * YIELD NOT STATED * A15517

PROLINE * PROTEID * FRESH STROBILUS * ENGLAND * YIELD NOT STATED * A15517

SERINE * PROTEID * FRESH STROBILUS * ENGLAND * YIELD NOT STATED * A15517

THREONINE * PROTEID * FRESH STROBILUS * ENGLAND * YIELD NOT STATED * A15517

TRYPTOPHAN * PROTEID * FRESH STROBILUS * ENGLAND * YIELD NOT STATED * A15517

TYROSINE * PROTEID * FRESH STROBILUS * ENGLAND * YIELD NOT STATED * A15517

VALINE * PROTEID * FRESH STROBILUS * ENGLAND * YIELD NOT STATED * A15517

HUMULUS LUPULUS CV.NUGGET (CANNABACEAE)

BENZALDEHYDE,4-HYDROXY: * BENZENOID * DRIED STROBILUS * USA * YIELD NOT STATED * H32670

COHUMULINONE * ALICYCLIC * DRIED STROBILUS * USA * YIELD NOT STATED * H32670

DAUCOSTEROL * STEROID * DRIED STROBILUS * USA * YIELD NOT STATED * H32670

HUMULINONE * ALICYCLIC * DRIED STROBILUS * USA * YIELD NOT STATED * H32670

NARINGENIN,6-8-DIPRENYL: * FLAVANONE * DRIED STROBILUS * USA * YIELD NOT STATED * H32670

HUMULUS LUPULUS CV.NUGGET (CANNABACEAE)

NARINGENIN,6-PRENYL: (DL): * FLAVANONE * DRIED STROBILUS * USA * YIELD NOT STATED * H32670

NARINGENIN,8-PRENYL: (DL): * FLAVANONE * DRIED STROBILUS * USA * YIELD NOT STATED * H32670

XANTHOHUMOL * FLAVONOID * DRIED STROBILUS * USA * YIELD NOT STATED * H32670

XANTHOHUMOL B * FLAVONOID * DRIED STROBILUS * USA * YIELD NOT STATED * H32670

XANTHOHUMOL B,DEMETHYL: * FLAVONOID * DRIED STROBILUS * USA * YIELD NOT STATED * H32670

XANTHOHUMOL C * FLAVONOID * DRIED STROBILUS * USA * YIELD NOT STATED * H32670

XANTHOHUMOL C,1''-2''-DIHYDRO: * FLAVONOID * DRIED STROBILUS * USA * YIELD NOT STATED * H32670

XANTHOHUMOL D * FLAVONOID * DRIED STROBILUS * USA * YIELD NOT STATED * H32670

XANTHOHUMOL G * FLAVONOID * DRIED STROBILUS * USA * YIELD NOT STATED * H32670

XANTHOHUMOL H * FLAVONOID * DRIED STROBILUS * USA * YIELD NOT STATED * H32670

XANTHOHUMOL I * FLAVONOID * DRIED STROBILUS * USA * YIELD NOT STATED * H32670

XANTHOHUMOL J,DEMETHYL: * FLAVONOID * DRIED STROBILUS * USA * YIELD NOT STATED * H32670

XANTHOHUMOL,5'-PRENYL: * FLAVONOID * DRIED STROBILUS * USA * YIELD NOT STATED * H32670

XANTHOHUMOL,ALPHA-BETA-DIHYDRO: * FLAVONOID * DRIED STROBILUS * USA * YIELD NOT STATED * H32670

XANTHOHUMOL,DEMETHYL: * FLAVONOID * DRIED STROBILUS * USA * YIELD NOT STATED * H32670

XANTHOHUMOL,ISO: * FLAVANONE * DRIED STROBILUS * USA * YIELD NOT STATED * H32670

XANTHOHUMOL,TRANS: 5''-HYDROXY: * FLAVONOID * DRIED STROBILUS * USA * YIELD NOT STATED * H32670

PRESENCE OF COMPOUNDS IN HUMULUS LUPULUS CV.SHINSHU-NASE

HUMULUS LUPULUS CV.SHINSHU-NASE (CANNABACEAE)

CHALCONE,2'-4-DIHYDROXY-3'-(ISO-PRENYL)-4'-6'-DIMETHOXY: * FLAVONOID * FROZEN STROBILUS * JAPAN * 00.00275% * H08832

CHALCONE,4-4'-DIHYDROXY-2'-6'-DIMETHOXY: * FLAVONOID * FROZEN STROBILUS * JAPAN * 00.0075% * H08832

XANTHOHUMOL * FLAVONOID * FROZEN STROBILUS * JAPAN * 00.0015% * H08832

XANTHOHUMOL,ISO: * FLAVANONE * FROZEN STROBILUS * JAPAN * 00.18375% * H08832

HUMULUS LUPULUS CV.WILLIAMETTTE (CANNABACEAE)

PROANTHOCYANIDINS * FLAVONOID * DRIED STROBILUS * USA * YIELD NOT STATED * L24067

HUMULUS LUPULUS CV.WYE NORTHDOWN (CANNABACEAE)

PHENYL-(4'-HYDROXY)-N-NONANE,1: * BENZENOID * FREEZE-DRIED SUSPENSION CULTURE * NETHERLANDS * 00.00682% * M25923

HUMULUS LUPULUS CV.WYE TARGET (CANNABACEAE)

CADINENE,DELTA: * SESQUITERPENE * ESSENTIAL OIL * NETHERLANDS * YIELD NOT STATED * K19321

CADINENE,GAMMA: * SESQUITERPENE * ESSENTIAL OIL * NETHERLANDS * YIELD NOT STATED * K19321

CARYOPHYLLENE,BETA: * SESQUITERPENE * ESSENTIAL OIL * NETHERLANDS * YIELD NOT STATED * K19321

CARYOPHYLLENE,BETA: OXIDE * SESQUITERPENE * ESSENTIAL OIL * NETHERLANDS * YIELD NOT STATED * K19321

HUMULENE OXIDE,ALPHA: * SESQUITERPENE * ESSENTIAL OIL * NETHERLANDS * YIELD NOT STATED * K19321

HUMULENE,ALPHA: * SESQUITERPENE * ESSENTIAL OIL * NETHERLANDS * YIELD NOT STATED * K19321

MYRCENE,BETA: * MONOTERPENE * ESSENTIAL OIL * NETHERLANDS * YIELD NOT STATED * K19321

SELINENE,ALPHA: * SESQUITERPENE * ESSENTIAL OIL * NETHERLANDS * YIELD NOT STATED * K19321

HUMULUS LUPULUS SEX FEMALE (CANNABACEAE)

CATECHIN(4-BETA-8)-CATECHIN(4-ALPHA-8)-CATECHIN,EPI: (-): * FLAVONOID * DRIED INFLORESCENCE * USA * YIELD NOT STATED * L19987

PRESENCE OF COMPOUNDS IN HUMULUS LUPULUS SEX FEMALE

HUMULUS LUPULUS SEX FEMALE (CANNABACEAE)

CATECHIN,(+): * FLAVONOID * DRIED INFLORESCENCE * USA * YIELD NOT STATED * L19987

CATECHIN,EPI: (-): * FLAVONOID * DRIED INFLORESCENCE * USA * YIELD NOT STATED * L19987

HUMULONE * ALICYCLIC * DRIED INFLORESCENCE * JAPAN * YIELD NOT STATED * L13887

LUPULIN * STRUCTURE UNKNOWN * DRIED INFLORESCENCE * AUSTRALIA * YIELD NOT STATED * K12315

LUPULONE * ALICYCLIC * DRIED INFLORESCENCE * JAPAN * YIELD NOT STATED * L13887

PROCYANIDIN B-1 * FLAVONOID * DRIED INFLORESCENCE * USA * YIELD NOT STATED * L19987

PROCYANIDIN B-2 * FLAVONOID * DRIED INFLORESCENCE * USA * YIELD NOT STATED * L19987

PROCYANIDIN B-3 * FLAVONOID * DRIED INFLORESCENCE * USA * YIELD NOT STATED * L19987

PROCYANIDIN B-4 * FLAVONOID * DRIED INFLORESCENCE * USA * YIELD NOT STATED * L19987

HUMULUS LUPULUS SEX MALE (CANNABACEAE)

CAMPESTEROL * STEROID * CALLUS DERIVED FROM STEM * JAPAN * YIELD NOT STATED * N11897

ERGOSTAN-3-ONE,5-ALPHA: * STEROID * CALLUS DERIVED FROM STEM * JAPAN * YIELD NOT STATED * N11897

FRIEDELIN * TRITERPENE * CALLUS DERIVED FROM STEM * JAPAN * YIELD NOT STATED * N11897

HEDERAGENIN * TRITERPENE * CALLUS DERIVED FROM STEM * JAPAN * YIELD NOT STATED * N11897

MASLINIC ACID * TRITERPENE * CALLUS DERIVED FROM STEM * JAPAN * YIELD NOT STATED * N11897

HUMULUS LUPULUS SEX MALE (CANNABACEAE)

MASLINIC ACID,3-EPI: * TRITERPENE * CALLUS DERIVED FROM STEM * JAPAN * YIELD NOT STATED * N11897

OLEANOLIC ACID * TRITERPENE * CALLUS DERIVED FROM STEM * JAPAN * YIELD NOT STATED * N11897

SITOSTEROL,BETA: * STEROID * CALLUS DERIVED FROM STEM * JAPAN * YIELD NOT STATED * N11897

STIGMAST-22-EN-3-ONE,5-ALPHA: * STEROID * CALLUS DERIVED FROM STEM * JAPAN * YIELD NOT STATED * N11897

STIGMASTAN-3-ONE,5-ALPHA: * STEROID * CALLUS DERIVED FROM STEM * JAPAN * YIELD NOT STATED * N11897

STIGMASTEROL * STEROID * CALLUS DERIVED FROM STEM * JAPAN * YIELD NOT STATED * N11897

URSOLIC ACID * TRITERPENE * CALLUS DERIVED FROM STEM * JAPAN * YIELD NOT STATED * N11897

HUMULUS LUPULUS VAR.BULLION (CANNABACEAE)

BUT-2-EN-1-AL,3-METHYL: * ALKANAL TO C4 * DRIED INFLORESCENCE * ENGLAND * YIELD NOT STATED * A13856

BUT-2-EN-1-OL,3-METHYL: * MONOTERPENE * DRIED INFLORESCENCE * ENGLAND * YIELD NOT STATED * A13856

BUT-3-EN-2-OL,2-METHYL: * ALKANOL TO C4 * DRIED INFLORESCENCE * ENGLAND * YIELD NOT STATED * A13856

BUTAN-1-OL,3-METHYL: * ALKANOL TO C4 * DRIED INFLORESCENCE * ENGLAND * YIELD NOT STATED * A13856

BUTAN-2-ONE,3-METHYL: * ALKANONE TO C4 * DRIED INFLORESCENCE * ENGLAND * YIELD NOT STATED * A13856

BUTANOIC ACID,3-METHYL: * ALKANE TO C4 * DRIED INFLORESCENCE * ENGLAND * YIELD NOT STATED * A13856

FURAN,2-5-DIHYDRO: 2-2-DIMETHYL-5-OXO: * MISC LACTONE * DRIED INFLORESCENCE * ENGLAND * YIELD NOT STATED * A13856

PROPAN-1-OL,2-METHYL: * ALKANOL TO C4 * DRIED INFLORESCENCE * ENGLAND * YIELD NOT STATED * A13856

PROPANOIC ACID,2-METHYL: * ALKANE TO C4 * DRIED INFLORESCENCE * ENGLAND * YIELD NOT STATED * A13856

PRESENCE OF COMPOUNDS IN HUMULUS LUPULUS VAR.CORDIFOLIUS

HUMULUS LUPULUS VAR.CORDIFOLIUS (CANNABACEAE)

RUTIN * FLAVONOL * LEAF * JAPAN * 00.20% * A06464

HUMULUS LUPULUS VAR.HALLERTAUER PERLE (CANNABACEAE)

PHLOROGLUCINYL,5-[(2-METHYL-BUTYRYL); * BENZENOID * DRIED STROBILUS * GERMANY * YIELD NOT STATED * H34568

PHLOROGLUCINYL]-BETA-D-GLUCOPYRANOSIDE,1-[(2-METHYL-PROPANOYL): * BENZENOID * DRIED STROBILUS * GERMANY * YIELD NOT STATED * H34568

PHLOROGLUCINYL]-BETA-D-GLUCOPYRANOSIDE,1-[(3-METHYL-BUTYRYL): * BENZENOID * DRIED STROBILUS * GERMANY * YIELD NOT STATED * H34568

PHLOROGLUCINYL]-BETA-D-GLUCOPYRANOSIDE,1-[2-METHYL-BUTYRYL): * BENZENOID * DRIED STROBILUS * GERMANY * YIELD NOT STATED * H34568

HUMULUS LUPULUS VAR.LUPULOIDES (CANNABACEAE)

COHUMULONE * ALICYCLIC * DRIED STROBILUS * USA * YIELD NOT STATED * L22440

HUMULUS LUPULUS VAR.SAAZERE X ZATTLER (CANNABACEAE)

CHALCONE,3'-GERANYL: 2'-4-4'-6'-TETRAHYDROXY: * FLAVONOID * OVEN DRIED INFLORESCENCE * EUROPE(CULT) * 00.00255 * H20901

CHALCONE,3'-PRENYL: 2'-4-4'-6-TETRAHYDROXY: * FLAVONOID * OVEN DRIED INFLORESCENCE * EUROPE(CULT) * 00.00192% * H20901

NARINGENIN,6-PRENYL: * FLAVANONE * OVEN DRIED INFLORESCENCE * EUROPE(CULT) * YIELD NOT STATED * H20901

NARINGENIN,8-PRENYL: * FLAVANONE * OVEN DRIED INFLORESCENCE * EUROPE(CULT) * YIELD NOT STATED * H20901

XANTHOHUMOL * FLAVONOID * OVEN DRIED INFLORESCENCE * EUROPE(CULT) * 00.086535 * H20901

XANTHOHUMOL,DEHYDRO-CYCLO: * FLAVONOID * OVEN DRIED INFLORESCENCE * EUROPE(CULT) * 00.00028% * H20901

XANTHOHUMOL,ISO: * FLAVANONE * OVEN DRIED INFLORESCENCE * EUROPE(CULT) * YIELD NOT STATED * H20901

HUMULUS LUPULUS VAR.SPALTER (CANNABACEAE)

XANTHOHUMOL HYDRATE,DEHYDRO-CYCLO: * FLAVONOID * OVEN DRIED INFLORESCENCE * EUROPE(CULT) * 00.00233% * H20901

PRESENCE OF COMPOUNDS IN HUMULUS LUPULUS VAR.SPALTER

HUMULUS LUPULUS VAR.SPALTER (CANNABACEAE)

XANTHOHUMOL,5'-PRENYL: * FLAVONOID * OVEN DRIED INFLORESCENCE * EUROPE(CULT) * 00.00066% * H20901

HUMULUS LUPULUS VARIETIES (CANNABACEAE)

ADHUMULONE * ALICYCLIC * DRIED STROBILUS * BELGIUM * YIELD NOT STATED * L25068

ADLUPULONE * ALICYCLIC * DRIED STROBILUS * BELGIUM * YIELD NOT STATED * L25068

COHUMULONE * ALICYCLIC * STROBILUS * CHINA * YIELD NOT STATED * L11964

COLUPULONE * ALICYCLIC * DRIED STROBILUS * BELGIUM * YIELD NOT STATED * L25068

COLUPULONE * ALICYCLIC * DRIED STROBILUS * BELGIUM * YIELD NOT STATED * L25068

HUMULONE * ALICYCLIC * DRIED STROBILUS * BELGIUM * YIELD NOT STATED * L25068

LUPULONE * ALICYCLIC * DRIED STROBILUS * BELGIUM * YIELD NOT STATED * L25068

XANTHOHUMOL * FLAVONOID * DRIED STROBILUS * BELGIUM * YIELD NOT STATED * L25068

XANTHOHUMOL,DEMETHYL: * FLAVONOID * DRIED STROBILUS * BELGIUM * YIELD NOT STATED * L25068

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GOROZHKO,OA: PAKHOMOV,VP: SAMYLINA,IA: NIKULINA,IN:

FARMATSIYA(MOSCOW) (2000) 49 (4) pp. 48-50 SOURCE WAS AN ORIGINAL RESEARCH PAPER.

MOSK MED AKAD I M SECHENOVA MOSCOW RUSSIA

L15248 MEASURING ANTIOXIDANT EFFICIENCY OF WORT, MALT, AND HOPS AGAINST THE 2,2'-AZOBIS(2-AMIDINOPROPANE) DIHYDROCHLORIDE-INDUCED OXIDATION OF AN AQUEOUS DISPERSION OF LINOLEIC ACID.

LEIGEOIS,C: LERMUSIEAU,G: COLLIN,S:

J AGR FOOD CHEM (2000) 48 (4) pp. 1129-1134 SOURCE WAS AN ORIGINAL RESEARCH PAPER.

UNIT BRASSERIE IND ALIMENT UNIV CATHOLIQUE LAOUVAIN LOUVAIN BELGIUM

L15315 COMPARISON AND ANALYSIS OF A NEW VARIETY OF HOP WITH OTHER HOPS FROM XINJIANG.

ZHAO,SH: LIU,KF: LIU,G: WANG,LB: YANG,JZ:

XIBEI ZHIWU XUEBAO (2000) 20 (6) pp. 1110-1113 INFORMATION CODED FROM AN ABSTRACT. * CHEMICAL ABSTRACTS 134 352551 R

XINJIANG UNIV DEPT CHEM URUMQI 830046 CHINA

L15882 HEALTH FOOD AND PHARMACEUTICALS CONTAINING BODY WEIGHT REDUCING AGENT OBTAINED FROM HOP FLOWERS.

KANEKO,M: YAUSE,M:

PATENT-JAPAN KOKAI TOKKYO KOHO-131,080 (2001) pp. 7PP-. PATENT * CHEMICAL ABSTRACTS 134 325566 T

ASAHI BREWERIES LTD JAPAN

L17300 COMPARISON OF THE MOST ODOR-ACTIVE COMPOUNDS IN FRESH AND DRIED HOP CONES (HUMULUS LUPULUS L. VARIETY SPALTER SELECT) BASED ON GC-OLFACTOMETRY AND ODER DILUTION TECHNUQUES.

STEINHAUS,M: SCHIEBERLE,P:

J AGR FOOD CHEM (2000) 48 (5) pp. 1776-1783 SOURCE WAS AN ORIGINAL RESEARCH PAPER.

UNIV MUNCH DEUTSCH FORSCHUNG LEBENSMITT GARCHING GERMANY

L17332 ANTI-AGING COSMETICS CONTAINING EXTRACTS OF HUMULUS LUPULUS.

INOMATA,S: OTA,M:

PATENT-JAPAN KOKAI TOKKYO KOHO-11 246,387 (1998) pp. 8PP-. PATENT * CHEMICAL ABSTRACTS 131 204412 U

SHISEIDO CO LTD JAPAN

L17403 DIRECT THERMAL DESORPTION-GAS CHROMATOGRAPHY AND GAS CHROMATOGRAPHY-MASS SPECTROMETRY PROFILING OF HOP (HUMULUS LUPULUS L.) ESSENTIAL OILS IN SUPPORT OF VARIETAL CHARACTERIZATION.

ERI,S: KHOO,BK: LECH,J: HARTMAN,TG:

J AGR FOOD CHEM (2000) 48 (4) pp. 1140-1149 SOURCE WAS AN ORIGINAL RESEARCH PAPER.

STATE UNIV NEW JERSEY DEPT FOOD SCI COOK COLL NEW BRUNSWICK NJ 08901 USA

L17592 QUANTITATIVE ANALYSIS OF XANTHOHUMOL AND RELATED PRENYLFLAVONOIDS IN HOPS AND BEER BY LIQUID CHROMATOGRAPHY-TANDEM MASS SPECTROMETRY.

STEVENS,JF: TAYLOR,AW: DEINZER,ML:

J CHROMATOGR A (1999) 832 pp. 97-107 SOURCE WAS AN ORIGINAL RESEARCH PAPER.

OREGON STATE UNIV DEPT CHEM CORVALLIS OR USA

L18427 THE ANTIOXIDANT ACTIVITY OF CHINESE HERBS FOR ECZEMA AND OF PLACEBO HERBS. I.

KIRBY,AJ: SCHMIDT,RJ:

J ETHNOPHARMACOL (1997) 56 pp. 103-108 SOURCE WAS AN ORIGINAL RESEARCH PAPER.

UNIV WALES CARDIFF WELSH SCH PHARMA CARDIFF ENGLAND

L18555 STUDIES ON THE PRODUCTION OF A XANTHOHUMOL ENRICHED HOPS PRODUCT.

BIENDL,M: EGGERS,R: CZERWONATIS,N: MITTER,W:

CERVEZA Y MALTA (2001) 38 (150) pp. 25-27/29 INFORMATION CODED FROM AN ABSTRACT. * CHEMICAL ABSTRACTS 136 19171 E

HALLERTAUER MBH HALLERTAU GERMANY

L18575 EVALUATION OF FLAVOUR EXTRACTION METHODS FOR MALT, HOP AND BEER FLAVOURS.

WU,Z: BUIATTI,S: HUGHES,PS:

PROC CONGR EUR BREWERY CONV (1999) 1999 (27TH) pp. 79-86 INFORMATION CODED FROM AN ABSTRACT. * CHEMICAL ABSTRACTS 136 4842 A

BREWING RES INTERNATL NUTFIELD ENGLAND

L18878 COMPARISON OF IN VITRO ANTIOXIDANT ACTIVITIES OF MALT, HOPS, WORTS AND LARGE TYPE BEER.

SZWAJGIER,D: TARGONSKI,Z:

POL J FOOD NUTR SCI (2000) 9 (4) pp. 53-59 SOURCE WAS AN ORIGINAL RESEARCH PAPER. * CHEMICAL ABSTRACTS 135 106629 H

LUBLIN AGRICULT ACAD DEPT FOOD TECHNOL STORAGE LUBLIN POLAND

L19987 IDENTIFICATION AND IN VITRO BIOLOGICAL ACTIVITIES OF HOP PROANTHOCYANIDINS: INHIBITION OF NNOS ACTIVITY AND SCAVENGING OF REACTIVE NITROGEN SPECIES.

STEVENS,JF: MIRANDA,CL: WOLTHERS,KR: SCHIMERLIK,M: DEINZER,ML: BUHLER,DR:

J AGR FOOD CHEM (2002) 50 (12) pp. 3435-3443 SOURCE WAS AN ORIGINAL RESEARCH PAPER.

OREGON STATE UNIV DEPT CHEM CORVALLIS OR USA

L20065 REDUCING POWER OF HOP CULTIVARS AND BEER AGEING.

LERMUSIEAU,G: LIEGEOIS,C: COLLIN,S:

FOOD CHEM (2001) 72 (4) pp. 413-418 INFORMATION CODED FROM AN ABSTRACT. * CHEMICAL ABSTRACTS 134 352554 U

UNIV CALTHOLIQUE LOUVAIN UNIT BRASSERIE INDUST ALIMENT LOUVAIN BELGIUM

L20688 ESTROGEN AND PROGESTIN BIOACTIVITY OF FOODS, HERBS, AND SPICES.

ZAVA,DT: DOLLBAUM,CM: BLEN,M:

PROC SOC EXP BIOL MED (1998) 217 (3) pp. 369-378 SOURCE WAS AN ORIGINAL RESEARCH PAPER.

AERON BIOTECHNOLGY SAN EANDRO CA USA

L20811 ANTIGONADOTROPIC ACTIVITY OF HOP EXTRACT.

OKAMOTO,R: KUMAI,A:

ACTA ENDOCRINOL (1992) 127 (4) pp. 371-377 SOURCE WAS AN ORIGINAL RESEARCH PAPER.

TOKYO MED DENTAL UNIV DEPT ENDOCRINOLOGY MED RES INST TOKYO JAPAN

L21468 ACTIONS OF SOME PLANT EXTRACTS CONTAINING FLAVONOIDS AND OTHER PHENOLIC COMPOUNDS ON CALCIUM FLUXES IN CLONAL RAT PITUITARY GH4C1 CELLS.

RAUHA,JP: TAMMELA,P: SUMMANEN,J: VUORELA,P: KAHKONEN,M: HEINONEN,M: HOPIA,A: KUJALA,T: PIHLAJA,K: TORNQUIST,K: VUORELA,H:

PHARM PHARMACOL LETT (1999) 9 (2) pp. 66-69 SOURCE WAS AN ORIGINAL RESEARCH PAPER.

UNIV HELSINKI DEPT PHARMACOG SCH PHARM HELSINKI SF-00170 FINLAND

L22410 INTERACTIONS OF VALERIAN EXTRACTS AND A FIXED VALERIAN-HOP EXTRACT COMBINATION WITH ADENOSINE RECEPTORS.

MULLER,CE: SCHUMACHER,B: BRATTSTROM,A: ABOURASHED,EA: KOETTER,U:

LIFE SCI (2002) 71 (6) pp. 1939-1949 SOURCE WAS AN ORIGINAL RESEARCH PAPER.

UNIV BONN PHARM-CHEM INST BONN D-5300 GERMANY

L22440 COMPARATIVE CHEMICAL ATTRIBUTES OF NATIVE NORTH AMERICAN HOP, HUMULUS LUPULUS VAR. LUPULOIDES E. SMALL.

HAMPTON,R: NICKERSON,G: WHITNEY,P: HAUNOLD,A:

PHYTOCHEMISTRY (2002) 61 (7) pp. 855-862 SOURCE WAS AN ORIGINAL RESEARCH PAPER.

HORTICULTURAL CROPS RES UNIT CORVALLIS OR 97330 USA

L23184 THE BREWING VALUE OF BOHEMIAN AND MORAVIAN HOPS FROM THE 2001 CROP.

MIKYSKA,A: JURKOVA,M:

KVASNY PRUM (2001) 47 (11/12) pp. 333-336 INFORMATION CODED FROM AN ABSTRACT. * CHEMICAL ABSTRACTS 137 108516 J

VUPS PIVOVARSKY USTAV PRAHA PRAGUE CZECH REPUBLIC

L23793 DETERMINATION OF HOP ESSENTIAL OILS BY CAPILLARY GAS CHROMATOGRAPHY.

ANON:

J AMER SOC BREW CHEM (2001) 59 (4) pp. 222-225 SOURCE WAS AN ORIGINAL RESEARCH PAPER.

USA

L24067 HOP (HUMULUS LUPULUS L.) PROANTHOCYANIDINS CHARACTERIZED BY MASS SPECTROMETRY, ACID CATALYSIS, AND GEL PERMEATION CHROMATOGRAPHY.

TAYLOR,AW: BAROFSKY,E: KENNEDY,JA: DEINZER,ML:

J AGR FOOD CHEM (2003) 51 (14) pp. 4101-4110 SOURCE WAS AN ORIGINAL RESEARCH PAPER.

OREGON STATE UNIV DEPT CHEM CORVALLIS OR USA

L24543 INHIBITORY EFFECTS OF HERBAL EXTRACTS ON CYCLOOXYGENASE ACTIVITY OF PROSTAGLANDIN H2 SYNTHASE FROM SHEEP SEMINAL VESICLE.

MIN,KR: KIM,Y: KANG,SH: MAR,WC: LEE,KS: RO,JS: LEE,SH: KIM,Y:

NAT PROD SCI (1996) 2 (1) pp. 56-74 SOURCE WAS AN ORIGINAL RESEARCH PAPER.

CHUNGBUK NATL UNIV COLL PHARM CHEONGJU SOUTH KOREA

L24897 PEROXIDASE ACTIVITY IN HOP PLANTS INFESTATION BY RED SPIDER MITES.

TREVISAN,MTS: SCHEFFER,JJC: VERPOORTE,R:

CROP PROTECT (2003) 22 (2) pp. 423-424 INFORMATION CODED FROM AN ABSTRACT. * CHEMICAL ABSTRACTS 139 3510 R

UNIV FED DO CEARA DEPT QUIM ORG & INORG FORTALEZA CEARA 60,000 BRAZIL

L25068 FORMATION AND ACCUMULATION OF ALPHA-ACIDS, BETA-ACIDS, DESMETHYLXANTHOHUMOL, AND XANTHOHUMOL DURING FLOWERING OF HOPS (HUMULUS LUPULUS L.).

DE KEUKELEIRE,J: OOMS,G: HEYERICK,A: ROLDAN RUIZ,I: VAN BOCKSTAELE,E: DE KEUKELEIRE,D:

J AGR FOOD CHEM (2003) 51 (15) pp. 4436-4441 SOURCE WAS AN ORIGINAL RESEARCH PAPER.

AGRUCULTURAL RES CENT DEPT PLANT GENETICS BREEDING MELLE BELGIUM

L25695 HUMULONE REMOVAL IN PREPARATION OF LIGHT STABLE HOPS FOR BOTTLED BEER AND ALE.

TING,PL: GOLDSTEIN,H: MURAKAMI,AA: VANSAFORD,M: REFLING,JR: SEABROOKS,JR: RYDER,DS:

PATENT-US-185,933 (2003) pp. 7PP-. PATENT * CHEMICAL ABSTRACTS 139 276135 U

USA

L25902 ANTIVIRAL ACTIVITY OF HOP CONSTITUENTS AGAINST A SERIES OF DNA AND RNA VIRUSES.

BUCKWOLD,VE: WILSON,RJH: NALCA,A: BEER,BB: VOSS,TG: TURPIN,JA: BUCKHEIT III,RW: WEI,J: WENZEL-MATHERS,M: WALTON,EM: SMITH,RJ: PALLANSCH,M: WARD,P: WELLS,J: CHUVALA,L: SLOANE,S: PAULMAN,R: RUSSELL,J: HARTMAN,T: PTAK,R:

ANTIVIRAL RES (2004) 61 (1) pp. 57-62 SOURCE WAS AN ORIGINAL RESEARCH PAPER.

SOUTHERN RES INST INFECT DIS RES DEPT FREDERICK MD 21701 USA

L25907 MECHANISMS OF CANCER CHEMOPREVENTION BY HOP BITTER ACIDS (BEER AROMA) THROUGH INDUCTION OF APOPTOSIS MEDIATED BY FAS AND CASPASE CASCADES.

CHEN,WJ: LIN,JK:

J AGR FOOD CHEM (2004) 52 (1) pp. 55-64 SOURCE WAS AN ORIGINAL RESEARCH PAPER.

NATIONAL TAIWAN UNIV INST BIOCHEM MOLE BIOL COLL MED TAIPEI TAIWAN

L26193 BIOSYNTHETIC EXPERIMENTS WITH TALL PLANTS UNDER FIELD CONDITIONS. 18-O2 INCORPORATION INTO HUMULONE FROM HUMULUS LUPULUS.

HECHT,S: KAMMHUBER,K: REINER,J: BACHER,A: EISENREICH,WG:

PHYTOCHEMISTRY (2004) 65 (8) pp. 1057-1060 SOURCE WAS AN ORIGINAL RESEARCH PAPER.

TECHN UNIV MUNCHEN LEHRSTH ORG CHEM BIOCHEM GARCHING GERMANY

L26318 ESTROGEN BIOACTIVITY IN FO-TI AND OTHER HERBS USED FOR THEIR ESTROGEN-LIKE EFFECTS AS DETERMINED BY A RECOMBINANT CELL BIOASSAY.

KLEIN,KO: JANFAZA,M: WONG,JA: CHANG,RJ:

J CLIN ENDOCRINOL METAB (2003) 88 (9) pp. 4077-4079 SOURCE WAS AN ORIGINAL RESEARCH PAPER.

UNIV CALIFORNIA-SAN DIEGO SAN DIEGO CALIFORNIA 92123 USA

L26696 IN VITRO BINDING EXPERIMENTS WITH A VALERIAN, HOPS AND THEIR FIXED COMBINATION EXTRACT (ZE91019) TO SELECTED CENTRAL NERVOUS SYSTEM RECEPTORS.

ABOURASHED,EA: KOETTER,U: BRATTSTROM,A:

PHYTOMEDICINE (2004) 11 (7-8) pp. 633-638 SOURCE WAS AN ORIGINAL RESEARCH PAPER.

KING SAUD UNIV DEPT PHARMACOLOGY RIYADH SAUDI ARABIA

L26912 BIOSYNTHESIS C14-LABELLING OF XANTHOHUMOL IN HOP CONES.

BERWANGER,S: FRANK,N: KNAUFT,J: BECKER,B:

MOL NUTR FOOD RES (2005) 49 pp. 857-860 SOURCE WAS AN ORIGINAL RESEARCH PAPER.

UNIV SAARLANDS PHARMAKOG & ANAL PHYTOCHEM SAARBRUCKEN D-6600 GERMANY

L26914 ENRICHMENT OF XANTHOHUMOL IN BREWING PROCESS.

WUNDERLICH,S: ZURCHER,A: BACK,W:

MOL NUTR FOOD RES (2005) 49 pp. 874-881 SOURCE WAS AN ORIGINAL RESEARCH PAPER.

LEHRSTUHL TECHNOL BRAUEREI MUNCHEN-WAIHENSTEPHAN GERMANY

L27210 CCC SAMPLE CUTTING FOR ISOLATION OF PRENYLATED PHENOLICS FROM HOPS.

CHADWICK,LR: FONG,HHS: FARNSWORTH,NR: PAULI,GF:

J LIQ CHROM REL TECHNOL (2005) 28 pp. 1959-1969 SOURCE WAS AN ORIGINAL RESEARCH PAPER.

UNIV ILLINOIS AT CHICAGO PROGRAM COLLAB RES PHARM SCI COLL PHARMACY CHICAGO IL 60612 USA

L28199 C-LABELLING OF XANTHOHUMOL IN HOP CONES (HUMULUS LUPULUS).

BERWANGER,S: ZAPP,J: BECKER,H:

PLANTA MED (2005) 71 (6) pp. 530-534 SOURCE WAS AN ORIGINAL RESEARCH PAPER.

UNIV SAARLANDS PHARMAKOG & ANAL PHYTOCHEM SAARBRUCKEN D-6600 GERMANY

L28211 MOLECULAR CLONING, EXPRESSION, AND CHARACTERIZATION OF ADENYLATE ISOPENTENYLTRANSFERASE FROM HOP (HUMULUS LUPULUS L.).

SAKANO,Y: OKADA,Y: MATSUNAGA,A: SUWAMA,T: KANEKO,T: ITO,K: NOGUCHI,H: ABE,I:

PHYTOCHEMISTRY (2007) 65 (17) pp. 2439-2446 SOURCE WAS AN ORIGINAL RESEARCH PAPER.

UNIV SHIZUOKA SCH PHARM SCI SHIZUOKA 422 JAPAN

L29088 EFFECTS OF HOP EXTRACTS ON NASAL RUBBING AND SNEEZING IN BALB/C MICE.

TAKUBO,M: INOUE,T: JIANG,S: TSUMURO,T: UEDA,Y: YATSUZUKA,R: SEGAWA,S: WATARI,J: KAEMI,C:

BIOL PHARM BULL (2006) 29 (4) pp. 689-692 SOURCE WAS AN ORIGINAL RESEARCH PAPER.

OKAYAMA UNIV DEPT MED PHARMACOL OKAYAMA 700-8530 JAPAN

L29089 SEDATING EFFECTS OF HUMULUS LUPULUS L. EXTRACTS.

SCHILLER,H: FORSTER,A: VONHOFF,C: HEGGER,M: BILLER,A: WINTERHOFF,H:

PHYTOMEDICINE (2006) 13 (8) pp. 535-541 SOURCE WAS AN ORIGINAL RESEARCH PAPER.

INST PHARMAKOL TOXIKOL MUNSTER 48149 GERMANY

L29296 XANTHOHUMOL ISOLATED FROM HUMULUS LUPULUS INHIBITS MENADIONE-INDUCED DNA DAMAGE THROUGH INDUCTION OF QUINONE REDUCTASE

DIETZ,BR: KANG,YH: LIU,GW: EGGLER,AL: YAO,P: CHADWICK,LR: PAULI,GF: FARNSWORTH,NR: MESECAR,AD: VAN BREEMEN,RB: BOLTON,JL:

CHEM RES TOXICOL (2005) 18 (8) pp. 1296-1305 SOURCE WAS AN ORIGINAL RESEARCH PAPER.

COLLEGE OF PHARMACY, UNIVERSITY OF ILLINOIS AT CHICAGO DEPARTMENT OF MEDICINAL CHEMISTRY AND PHARMACOGNOSY UIC/NIH CENTER FOR BOTANICAL AND DIETARY SUPPLEMENTS CHICAGO ILLINOIS 60612 USA

L29430 GROWTH INHIBITION OF HUMAN BREAST CANCER CELLS BY HERBS AND PHYTOESTROGENS

DIXON-SHANIES,D: SHAIKH,N:

ONCOLOGY REPORTS (1999) 6 (6) pp. 1383-1387 SOURCE WAS AN ORIGINAL RESEARCH PAPER.

NEW YORK INSTITUTE OF TECHNOLOGY NEW YORK COLLEGE OSTEOPATHIC MED OLD WESTBURY USA

L30139 OCCURRENCE OF RESVERATROL AND PICEID IN AMERICAN AND EUROPEAN HOP CONES

JERKOVIC,V: COLLIN,S:

J AGR FOOD CHEM (2007) 55 pp. 8754-8758 SOURCE WAS AN ORIGINAL RESEARCH PAPER.

UNIVERSITE CATHOLIQUE DE LOUVAIN AGRONOMIQUE ET ENVIRONNEMENTALE FACULTE D'INGENIERIE BIOLOGIQUE LOUVAIN-LA-NEUVE B-1348 BELGIUM

L30148 DETECTION AND QUANTIFICATION OF PROVITAMIN D2 AND VITAMIN D2 IN HOP (HUMULUS IUPULUS L.) BY LIQUID CHROMATOGRAPHY-DIODE ARRAY DETECTION-ELECTROSPRAY IONIZATION TANDEM MASS SPECTOMETRY

MAGALHAES,PJ: CARVALHO,DO: GUIDO,LF: BARROS,AA:

JAFC (2007) 55 pp. 7995-8002 SOURCE WAS AN ORIGINAL RESEARCH PAPER.

UNIV DO PORTO DEPT DE QUIMICA DA FACULDADE DE CIENCIAS PORTO 4169-007 PORTUGAL

L30161 BIOACTIVE COMPONENTS OF THE HOP STROBILUS: COMPARISON OF DIFFERENT EXTRACTION METHODS BY CAPILLARY ELECTROPHORETIC AND CHROMATOGRAPHIC METHODS

HELMJA,K: VAHER,M: PUSSA,T: KAMSOL,K: ORAV,A: KALJURAND,M:

J CHROMATOGR A (2007) 1155 pp. 222-229 SOURCE WAS AN ORIGINAL RESEARCH PAPER.

TALLINN UNIV TECH DEPT CHEM FAC SCI TALLINN 12618 ESTONIA

L30186 EFFECT OF HUMULUS LUPULUS ON GASTRIC SECRETION IN A RAT PYLORUS-LIGATED MODEL.

KURASAWA,T: CHIKARAISHI,Y: NAITO,A: TOYODA,Y: NOTSU,Y:

BIOL PHARM BULL (2005) 28 (2) pp. 353-357 SOURCE WAS AN ORIGINAL RESEARCH PAPER.

SAGAMI RES LAB WAKAMOTO PHARMACEU CO. KANAGAWA 258-0018 JAPAN

L30188 XANTHOHUMOL, A NOVEL ANTI-HIV-1 AGENT PURIFIED FROM HOPS HUMULUS LUPULUS.

WANG,Q: DING,ZH: LIU,JK: ZHRNG,YT:

ANTIVIRAL RES (2004) 64 pp. 189-194 SOURCE WAS AN ORIGINAL RESEARCH PAPER.

CHIN ACAD SCI LAB MOLE IMMUNOPHARMACOL KUNMING INST ZOOLOGY KUNMING 650223 CHINA

L30189 HYPOTHERMIC EFFECTS OF HOPS ARE ANTAGONIZED WITH THE COMPETITIVE MELATONIN RECPTOR ANTAGONIST LUZINDOLE IN MICE.

BUTTERWECK,V: BRATTSTROEM,A: GRUNDMANN,O: KOETTER,U:

J PHARM PHARMACOL (2007) 59 pp. 549-552 SOURCE WAS AN ORIGINAL RESEARCH PAPER.

UNIV FL DEPT PHARMACEU COLL PHARM GAINSVILLE FL 32610 USA

L30190 SELECTIVE INHIBITION OF COX-2 BY A STANDARDIZED CO2 EXTRACT OF HUMULUS LUPULUS IN VITRO AND ITS ACTIVITY IN A MOUSE MODEL OF ZYMOSAN-INDUCED ARTHRITIS.

HOUGEE,S: FABER,J: SANDERS,A: VAN DEN BERG,AB: GARSSEN,J: SMIT,HF: HOIJER,MA:

PLANTA MED (2006) 72 pp. 228-233 SOURCE WAS AN ORIGINAL RESEARCH PAPER.

NUMICO RES WAGENINGEN NETHERLANDS

L30192 DETERMINATION OF XANTHOHUMOL IN HOPS (HUMULUS LUPULUS L.) BY NONAQUEOUS CE.

KAC,J: ZAKRAJSEK,J: MLINARIC,A: KREFT,S: FILIPIC,M:

ELECTROPHORESIS (2007) 28 pp. 965-969 SOURCE WAS AN ORIGINAL RESEARCH PAPER.

UNIV LJUBLJANA FAC PHARM LJUBLJANA SLOVENIA

L30193 XANTHOHUMOL ISOLATED FROM HUMULUS LUPULUS INHIBITS MENADIONE-INDUCED DNA DAMAGE THROUGH INDUCTION OF QUINONE REDUCTASE

DIETZ,BM; KANG,YH; LIU, GW; EGGLER, AL; YAO,P; CHADWICK,LR; PAULI,GF; FARNSWORTH,NR; MESECAR,AD; VAN BREEMEN,RB; BOLTON,JL

CHEM RES TOXICOL (2005) 18 (8) pp. 1296-1305 SOURCE WAS AN ORIGINAL RESEARCH PAPER.

UNIV ILLINOIS CHICAGO DEPT MED CHEM PHARMACOGNOSY COLL PHARM CHICAGO IL USA

L30218 SCREENING METHOD FOR THE DISCOVERY OF POTENTIAL CANCER CHEMOPREVENTION AGENTS BASED ON MASS SPECTROMETRIC DETECTION OF ALKYLATED KEAP1

LIU,G; EGGLER,A; DIETZ,B; MESECAR,A; BOLTON,JA; PEZZUTO,JM; VAN BREEMEN,RB

ANAL CHEM (2005) 77 (19) pp. 6407-6414 SOURCE WAS AN ORIGINAL RESEARCH PAPER.

UNIV ILLINOIS CHICAGO DEPT MED CHEM PHARMACOGNOSY COLL PHARM CHICAGO IL 60612 USA

L30227 INTERACTION OF ALCOHOLIC EXTRACTS OF HOPS WITH COCAINE AND PARACETAMOL IN MICE

HORVAT,O; RASKOVIC,A; JAKOVLJEVIC,V; SABO,J; BERENJI,J

EUR J DRUG METABOLISM PHARMACOKINETICS (2007) 32 (1) pp. 39-44 SOURCE WAS AN ORIGINAL RESEARCH PAPER.

UNIV NOVI SAD FAC MEDICINE NOVI SAD SERBIA

L30237 DETERMINATION OF STILBENES IN HOP PELLETS FROM DIFFERENT CULTIVARS

JERKOVIC,V: CALLEMIEN,D: COLLIN,S

J AGR FOOD CHEM (2005) 53 (10) pp. 4202-4206 SOURCE WAS AN ORIGINAL RESEARCH PAPER.

UNIV CATHOLIQUE DE LOUVAIN FACULTE D'INGENIERIE BIOLOGIQUE, AGRONOMIQUE ENVIRONMENTALE LOUVAIN-LA-NEUVE B-1384 BELGIUM

L30238 SENSITIVE ELECTROCHEMICAL DETECTION METHOD FOR ȷ LPHA-ACIDS, dŒTA-ACIDS AND XANTHOHUMOL IN HOPS (HUMULUS LUPULUS L.)

KAC,J: VOVK,T

J CHROMATOGR B (2007) 850 (1) pp. 531-537 SOURCE WAS AN ORIGINAL RESEARCH PAPER.

UNIV LUBLJANA FACULTY PHARMACY LUBLJANA SI-1000 SLOVENIA

L30239 CHARACTERIZATION OF THE METHANOLIC EXTRACT OF HOPS USING CAPILLARY ELECTROPHORESIS- ELECTROSPRAY IONIZATION- MASS SPECTROMETRY

ARRAEZ-ROMAN,D; CORTACERO-RAMIREZ, S; SEGURA-CARRETERO,A; MARTIN-LAGOS CONTRERAS,JA; FERNANDEZ-GUTIERREZ,A

ELECTROPHORESIS (2006) 27 (11) pp. 2197-2207 SOURCE WAS AN ORIGINAL RESEARCH PAPER.

UNIV GRANADA DEPT ANALYTICAL CHEM FACULTY OF SCIENCES GRANADA SPAIN

L30251 SCIENTIFIC EVIDENCE FOR A FIXED EXTRACT COMBINATION (ZE 91019) FROM VALERIAN AND HOPS TRADITIONALLY USED AS A SLEEP-INDUCING AID

BRATTSTROEM,A

WEIN MED WOCHENSCHR (2007) 157 (13-14) pp. 367-370 SOURCE WAS AN ORIGINAL RESEARCH PAPER.

MAX ZELLER SOHNE AG ROMANSHORN SWITZERLAND

L30254 SAFETY EVALUATION OF POLYPHENOLS EXTRACTED FROM HOP BRACTS

NAGASAKO-AKAZUME,Y: HONMA,D: TAGASHIRA,M: KANDA,T: YASUE,M: OHTAKE,Y

FOOD CHEM TOXICOL (2007) 45 (8) pp. 1383-1392 SOURCE WAS AN ORIGINAL RESEARCH PAPER.

ASAHI BREWERY FUNDAMENTAL RESEARCH LABORATORY IBARAKI 302-0106 JAPAN

L30256 EFFECTS OF A HOP WATER EXTRACT ON THE COMPOUND 48/80-STIMULATED VASCULAR PERMEABILITY IN ICR MICE AND HISTAMINE RELEASE FROM OVA-SENSITIZED BALB/C MICE

SEGAWA,S: TAKATA,Y: KANEDA,H: WATARI,J

BIOSCI BIOTECH BIOCHEM (2007) 71 (6) pp. 1577-1581 SOURCE WAS AN ORIGINAL RESEARCH PAPER.

SAPPORO BREWERIES FRONTIER LABORATORIES OF VALUE CREATION SHIZUOKA 425-0013 JAPAN

L30337 PREPARATIVE REGIME FOR THE PURIFICATION OF BITTER ACIDS DERIVED FROM HOPS (HUMULUS LUPULUS L.)

HUGHES,PS:

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