



STN is operated in North America
by Chemical Abstracts Service.

STN Database Summary Sheet

The **NAPRALERT File (NATural PRoducts ALERT)** contains bibliographic and factual data on natural products, including information on the pharmacology, biological activity, taxonomic distribution, chemistry of plant, microbial, and animal (including marine) extracts as well as ethnomedicine use records. In addition, the database contains information on the chemistry and pharmacology of secondary metabolites that are derived from natural sources and that have known structure.

NAPRALERT contains records from 1650 to the present. Approximately 50% of the file is from systematic survey of the literature from 1975 to the present. The remaining records were obtained by selective retrospective indexing dating back to 1650.

The records in this file contain bibliographic information and factual data on natural products, including CAS Registry Numbers for many chemical constituents.

Subject Coverage

- Natural product information including pharmacology, biological activity, taxonomic distribution, ethnomedicine, and chemistry of plant, microbial, and animal (including marine) extracts.

Sources

- Abstract services
- Books
- Government reports
- Journals
- Newsletters
- Patents

File Data

- 1650 to August 2005
- 179,843 bibliographic records containing information for over 150,261 natural products and 174,257 organisms (10/05)
- The file is no longer being updated
- Automatic current-awareness searches (SDIs) are not available

User Aids

- Online Helps (HELP DIRECTORY lists all help messages available)
- STNGUIDE
- <http://www.cas.org/ONLINE/UG/napralert.pdf>

Database Producer

Program for Collaborative Research in the Pharmaceutical Sciences
College of Pharmacy
University of Illinois at Chicago
Chicago, Illinois 60680
Phone: 312-996-2246
Fax: 312-996-7107

In North America
CAS
STN North America
P.O. Box 3012
Columbus, Ohio 43210-0012 U.S.A.

CAS Customer Care:
Phone: 800-753-4227 (North America)
614-447-3700 (worldwide)
Fax: 614-447-3751
E-mail: help@cas.org
Internet: www.cas.org

In Europe
FIZ Karlsruhe
STN Europe
P.O. Box 2465
76012 Karlsruhe
Germany
Phone: +49-7247-808-555
Fax: +49-7247-808-259
E-mail: helpdesk@fiz-karlsruhe.de
Internet: www.stn-international.de

In Japan
JAICI (Japan Association for
International Chemical Information)
STN Japan
Nakai Building
6-25-4 Honkomagome, Bunkyo-ku
Tokyo 113-0021, Japan
Phone: +81-3-5978-3601 (Technical Service)
+81-3-5978-3621 (Customer Service)
Fax: +81-3-5978-3600
E-mail: helpdesk@jaici.or.jp (Technical Service)
cas-stn@jaici.or.jp (Customer Service)
Internet: www.jaici.or.jp

NAPRALERT

Search and Display Field Codes

Field that allows left truncation (/BI) is marked with an asterisk (*).

Search Field Name	Search Code	Search Examples	Display Codes
Basic Index* (1) (contains single words from the title (TI), classification code (CC), class identifier (CI), chemical name (CN), geographic term (GT), organism (ORGN), and type of study (STY) fields, as well as CAS Registry Numbers and pharmacological data such as extract, dosage, and results)	None (or /BI)	S VOLATILE OIL? S ?PHENANTH?	CC, CI, CN, GT, ORGN, RN, STY, TI
Accession Number	/AN	S 92:17094/AN S 1998:1234/AN	AN
Author	/AU	S KIM I H/AU	AU
Character Count (2)	/CHC	S 190-250/CHC	CHC
Chemical Class Identifier	/CI	S ISOQUINOLINE ALKAL?/CI S ALKALOID?/CI	CI
Chemical Name	/CN	S CHELIRUBIN?/CN	CN
Classification Code (3) (code and text)	/CC	S ANALGESIC/CC S ANALGESIC ACTIVITY/CC	CC
Corporate Source (3)	/CS	S INST PHARM BIOL/CS S MUNICH/CS	CS
Document Number	/DN	S H06008/DN	DN
Document Type (code and text)	/DT (or /TC)	S J/DT S RESEARCH PAPER/DT	DT
Entry Date (2)	/ED	S ED>=20000100	Not displayed
Field Availability (code and text)	/FA	S RN/FA S GT/FA	Not displayed
Geographic Term (organism country)	/GT	S JAPAN/GT	GT
Journal Title (Book Name)	/JT	S J NAT PROD/JT	JT, SO
Language (code and text)	/LA	S EN/LA S ENGLISH/LA	LA
Organism	/ORGN	S DICOT/ORGN S PAPAVER?/ORGN	ORGN
Other Source	/OS	S CA/OS S 75:72432/OS	OS
Publication Year (2)	/PY	S 1967/PY	PY, SO
Source (contains journal title, book name, patent information, collation, and publication year)	/SO	S J NAT PROD/SO S PATENT/SO	SO
Title	/TI	S ALKALOID#/TI	TI
Type of Study	/STY	S ISOLATION/STY	STY
Update Date (2)	/UP	S UP>20000100	Not displayed

(1) With left truncation, the input term must contain at least four characters.

(2) Numeric search field that may be searched using numeric operators or ranges.

(3) Search with implied (S) proximity is available in this field.

DISPLAY and PRINT Formats

Any combination of display formats listed below may be used to display or print answers. Multiple codes must be separated by spaces or commas, e.g., D L1 1-5 TI CS. The fields are displayed in the order requested.

Hit term highlighting is available in all fields. Highlighting is ON as the default and must be on in order to use the QRD, HIT, KWIC, and OCC formats.

Format	Content	Examples
AN (1) AU CHC (1) CS DN DT (or TC) JT (2) LA OS PY (2) SO TI	Accession Number Author Character Count Corporate Source Document Number Document Type Journal Title/Book Name Language Other Source Publication Year Source Title	D L4 1-4 AN D L1 3 AU D L1 1-5 CHC D 1-3,7,8 CS D DN D L1 DT 3 D JT D LA 2 D L1 OS D PY D SO 3,4 D TI TOTAL
ALL BIB CBIB IALL IBIB ORG QRD SAM SCAN (1,3)	AN, DN, TI, AU, CS, SO, DT, LA, OS, CHC, ORGN (Class, Family, Genus, Species, Subspecies, Organism part, Geographic area), Type of Study, Classification, Dosage Information, Qualitative results, Comment(s), Compound (Chemical Name, CAS Registry Number, Class Identifier) AN, DN, TI, AU, CS, SO, DT, LA, OS, CHC Compressed Bibliographic Data ALL, indented with text labels BIB, indented with text labels Organism Data (Class, Family, Genus, Species, Subspecies, Organism part, Geographic area) AN, DN, TI, AU, CS, SO, DT, LA, OS, CHC, plus query related data (QRD is the default) TI TI (random display without answer number)	D ALL 1 D BIB 1-3 D CBIB L1 1 D IALL 3 D IBIB D ORG L2 1-4 D QRD D SAM 1-10 D SCAN
HIT KWIC OCC (1)	Fields containing hit terms Hit terms plus 20 words on either side (Key-Word-In-Context) Number of occurrences of hit terms and fields in which they occur	D HIT D KWIC NOH D OCC

(1) No online display fee for this format.

(2) Custom display only.

(3) SCAN must be specified on the command line, i.e., D SCAN or DISPLAY SCAN.

NAPRALERT

SELECT, ANALYZE, and SORT Fields

The SELECT command is used to create E-numbers containing terms taken from the specified field in an answer set.

The ANALYZE command is used to create an L-number containing terms taken from the specified field in an answer set.

The SORT command is used to rearrange the search results in either alphabetic or numeric order of the specified field(s).

Field Name	Field Code	ANALYZE/ SELECT (1)	SORT
Accession Number	AN	Y	N
Author	AU	Y	Y
CAS Registry Number	RN	Y (2)	N
CAS Registry Numbers and Chemical Names	CHEM	Y (2)	N
Character Count	CHC	Y	Y
Chemical Name	CN	Y	N
	NAME	Y (2)	N
Class Identifier	CI	Y	N
Classification Code	CC	Y	N
Corporate Source	CS	Y	Y
Document Number	DN	Y	Y
Document Type	DT	Y	Y
Geographic Term	GT	Y	N
Journal Title	JT	Y	Y
Language	LA	Y	Y
Occurrence Count of Hit Search Terms	OCC	N	Y
Organism Name	ORGN	Y	N
Other Source	OS	Y	Y
Publication Year	PY	Y	Y
Title	TI	Y (default)	Y
Treatment Code	TC	Y	Y
Type of Study	STY	Y	N

(1) HIT may be used to restrict terms extracted to terms that match the search expression used to create the answer set, e.g., SEL HIT CN.

(2) Appends /BI to the terms created by SELECT.

Sample Records

DISPLAY IALL

ACCESSION NUMBER: 2004:2008 NAPRALERT
DOCUMENT NUMBER: H32437
TITLE: TWO NEW OLIGOSTILBENES WITH DIHYDROBENZOFURAN FROM THE STEM
BARK OF VATERIA INDICA
AUTHOR: ITO T; TANAKA T; IINUMA M; NAKAYA K I; TAKAHASHI Y; SAWA R;
NAGANAWA H;CHELLADURAI V
CORPORATE SOURCE: GIFU PREF INST HEALTH, ENVIRONMENTAL SCI, GIFU 504-0838 JAPAN
SOURCE: TETRAHEDRON (2003) 59 (8) p. 1255-1264.
DOCUMENT TYPE: (Research paper)
LANGUAGE: ENGLISH
CHARACTER COUNT: 1664
ORGN Class: DICOT Family: DIPTEROCARPACEAE Genus: VATERIA Species: INDICA
Organism part: DRIED STEMBARK
TYPE OF STUDY (STY): ISOLATION.
COMPOUND. Chemical name (CN): VATERIAPHENOL A
Class identifier (CI): BENZENOID
Yield: 00.00564%
TYPE OF STUDY (STY): ISOLATION.
COMPOUND. Chemical name (CN): VATERIAPHENOL B
Class identifier (CI): BENZENOID
Yield: 00.00058%
TYPE OF STUDY (STY): ISOLATION.
COMPOUND. Chemical name (CN): HOPEAPHENOL, (-)
Class identifier (CI): BENZENOID
Yield: 01.11764%
TYPE OF STUDY (STY): ISOLATION.
COMPOUND. Chemical name (CN): HOPEAPHENOL, ISO: (+)
Class identifier (CI): BENZENOID
Yield: 00.0007%
TYPE OF STUDY (STY): ISOLATION.
COMPOUND. Chemical name (CN): VATDIOSPYROIDOL
Class identifier (CI): BENZENOID
Yield: 00.00352%
TYPE OF STUDY (STY): ISOLATION.
COMPOUND. Chemical name (CN): VATICANOL B
Class identifier (CI): BENZENOID
Yield: 00.30588%
TYPE OF STUDY (STY): ISOLATION.
COMPOUND. Chemical name (CN): VATICASIDE B
Class identifier (CI): BENZENOID
Yield: 00.00035%
TYPE OF STUDY (STY): ISOLATION.
COMPOUND. Chemical name (CN): VATICASIDE C
Class identifier (CI): BENZENOID
Yield: 00.00035%
TYPE OF STUDY (STY): ISOLATION.
COMPOUND. Chemical name (CN): AMPELOPSIN H, (-)
Class identifier (CI): BENZENOID
Yield: 00.0007%
TYPE OF STUDY (STY): ISOLATION.
COMPOUND. Chemical name (CN): VINIFERIN, EPSILON: (-)
Class identifier (CI): BENZENOID
Yield: 00.03%
TYPE OF STUDY (STY): ISOLATION.
COMPOUND. Chemical name (CN): AMPELOPSIN A, (+)
Class identifier (CI): BENZENOID
Yield: 00.0047%

NAPRALERT**DISPLAY IALL (cont'd)**

TYPE OF STUDY (STY): ISOLATION.
COMPOUND. Chemical name (CN): PICEID
Class identifier (CI): STILBENE
Yield: 00.11764%
TYPE OF STUDY (STY): ISOLATION.
COMPOUND. Chemical name (CN): BERGENIN
Class identifier (CI): COUMARIN
Yield: 01.7647%

DISPLAY QRD

AN 2004:946 NAPRALERT
DN L25460
TI ANTITUMOR EFFECT OF RESVERATROL OLIGOMERS AGAINST HUMAN CANCER CELL LINES
AND THE MOLECULAR MECHANISM OF APOPTOSIS INDUCED BY VATICANOL C
AU ITO T; AKAO Y; YI H; OHGUCHI K; MATSUMOTO K; TANAKA T; IINUMA M; NOZAWA Y
CS GIFU INTERNATI INST BIOTECHNOL, GIFU 5050116 JAPAN
SO CARCINOGENESIS (2003) 24 (9) p. 1489-1497.
DT (Research paper)
LA ENGLISH
CHC 30896
ORGN Class: DICOT
TYPE OF STUDY (STY): IN VITRO. Classification (CC): CYTOTOXIC ACTIVITY
Dosage Information: CELL CULTURE; CONC USED: 10.0 MICROMOLS
Qualitative results: INACTIVE
Comment(s): VS.SH-SY5Y.
COMPOUND. Chemical name (CN): VATICANOL G
Class identifier (CI): BENZENOID