

BIOSIS[®] Toxicology**FILE DESCRIPTION**

BIOSIS[®] Toxicology contains citations from *Biological Abstracts[®]* (BA), and *Biological Abstracts/Reports, Reviews, and Meetings[®]* (BA/RRM) (formerly *BioResearch Index[®]*), the major publications of BIOSIS[®], that focus on toxicology and related topics. Records are drawn from journal articles, conference papers, monographs and book chapters, notes, letters, and reports, as well as original research. U.S. patent records are also included.

Abstracts are available for records beginning in 1976.

SUBJECT COVERAGE

All aspects of toxicology are covered, as they relate to:

- Agriculture
- Bacteriology
- Biochemistry
- Biophysics
- Biotechnology
- Botany
- Cell Biology
- Clinical Medicine
- Drugs
- Environmental Biology
- Environmental Science
- Experimental Medicine
- Genetics
- Immunology
- Microbiology
- Nutrition
- Occupational Health
- Parasitology
- Pathology
- Pharmacology
- Physiology
- Public Health
- Radiation Biology
- Systematic Biology
- Veterinary Science
- Virology

TIPS**USE FILE 157**

to search for highly focussed literature on all aspects of toxicology.

USE MAJOR CONCEPTS FOR EMPHASIS

S CELL BIOLOGY?/MC

USE THE (L) OPERATOR

to link terms with their modifiers or roles:

S BACTERIA(L)MICROORGANISMS/DE

USE LIMITS

for human subjects, conference papers:

S S1/HUMAN; S S5/CONF

USE MAP

to search CAS[®] Registry Numbers in another file:

MAP RN TEMP

DIALOG FILE DATA

Inclusive Dates: 1969 to present

Update Frequency: Weekly

File Size: 1,610,222 records as of December 2005

CONTACT

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SAMPLE JOURNAL ARTICLE RECORD

DIALOG(R)File 157:Biosis Toxicology
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AA= 0000009882 BIOSIS NO.: 200200270290
/TI Toxicity of tetracyclines and tetracycline degradation products to environmentally relevant bacteria, including selected tetracycline-resistant bacteria

AU= AUTHOR: Halling-Sorensen B (Reprint); Sengelov G; Tjornelund J
CS= AUTHOR ADDRESS: Section of Environmental Chemistry, Dept. of Analytical and Pharmaceutical Chemistry, Royal Danish School of Pharmacy, Universitetsparken 2, DK-2100, Copenhagen O, Denmark**Denmark

JN=,SO= JOURNAL: Archives of Environmental Contamination and Toxicology 42 (3):
PY= p263-271 April, 2002
MEDIUM: print
SN= ISSN: 0090-4341
DT= DOCUMENT TYPE: Article
RT= RECORD TYPE: Abstract
LA= LANGUAGE: English

/AB **ABSTRACT:** Tetracyclines used in veterinary therapy invariably will find their way as parent compound and degradation products to the agricultural field. Major degradation products formed due to the limited stability of parent tetracyclines (tetracycline, chlortetracycline, and oxytetracycline) in aqueous solution were theoretically identified at various environmental conditions, such as pH, presence of chelating metals, and light. Their potency was assessed on sludge bacteria, tetracycline-sensitive soil bacteria, and tetracycline-resistant strains. Several of the degradation products had potency at the same concentration level as tetracycline, chlortetracycline, and oxytetracycline on both the sludge and the tetracycline-sensitive soil bacteria. Further, both 5a,6-anhydrotetracycline and 5a,6-anhydrochlortetracycline had potency on tetracycline-resistant bacteria supporting a mode of action different from that of the parent compounds.

RN=,NA,NA= REGISTRY NUMBERS: 57-62-5: chlortetracycline; 79-57-2: oxytetracycline; 60-54-8: tetracycline; 60-54-8: tetracyclines

/DE,MC **DESCRIPTORS:** MAJOR CONCEPTS: Pharmacology; Pollution Assessment Control and Management; Toxicology

BN=,DE,OI,OI= BIOSYSTEMATIC NAMES: Bacteria--Microorganisms
/DE,OI,OI= ORGANISMS: bacteria (Bacteria)--environmentally relevant, tetracycline-resistant, tetracycline-sensitive; sludge bacteria (Bacteria)

BC=,DE,OI,OI= COMMON TAXONOMIC TERMS: Bacteria; Eubacteria; Microorganisms
/DE,NA,NA=,SY,SY= CHEMICALS & BIOCHEMICALS: 5-alpha,6-anhydrochlortetracycline--pollutant, toxicity; 5-alpha,6-anhydrotetracycline--pollutant, toxicity; chelating metals; chlortetracycline--antibacterial-drug, antiinfective-drug, pollutant, toxicity; oxytetracycline--antibacterial-drug, antiinfective-drug, pollutant; tetracycline--antibacterial-drug, antiinfective-drug, pollutant; tetracycline degradation products--pollutant, toxicity; tetracyclines--antibacterial-drug, antiinfective-drug, pollutant, toxicity

/DE,MQ **METHODS & EQUIPMENT:** veterinary therapy--therapeutic method
/DE,MI MISCELLANEOUS TERMS: light; pH

CC=,CN= **CONCEPT CODES:**
10060 Biochemistry studies - General
12512 Pathology - Therapy
22002 Pharmacology - General
22501 Toxicology - General and methods
22504 Toxicology - Pharmacology
22506 Toxicology - Environment and industry
31000 Physiology and biochemistry of bacteria
37015 Public health - Air, water and soil pollution
38502 Chemotherapy - General, methods and metabolism
38504 Chemotherapy - Antibacterial agents

BC=,BN= BIOSYSTEMATIC CODES:
05000 Bacteria

SAMPLE PATENT RECORD

DIALOG(R)File 157:Biosis Toxicology
(c) 2004 BIOSIS. All rts. reserv.

AA= 0000006966 BIOSIS NO.: 200200240531
/TI Method for antagonizing inhibition effects of alcohol on cell adhesion
AU= AUTHOR: Charness Michael E (Reprint); Wilkemeyer Michael F
CS= AUTHOR ADDRESS: Waban, MA, USA**USA
JN=,SO= JOURNAL: Official Gazette of the United States Patent and Trademark Office
PY= Patents 1256 (3): Mar. 19, 2002
MEDIUM: e-file
PN=,PD= PATENT NUMBER: US 6359015 PATENT DATE GRANTED: March 19, 2002 20020319
CL=,PA=,CO= PATENT CLASSIFICATION: 514-724 PATENT ASSIGNEE: The United States of America as represented by the Department of Veterans Affairs, Washington, DC, USA PATENT COUNTRY: USA
SN= ISSN: 0098-1133
DT= DOCUMENT TYPE: Patent
RT= RECORD TYPE: Abstract
LA= LANGUAGE: English

/AB ABSTRACT: A method of antagonizing inhibition effects of alcohol on cell adhesion, includes contacting a cell-adhesion molecule expressing cell with an effective amount of a compound, wherein the compound comprises an alcohol with five or more carbons. More particularly, the compound comprises 1-pentanol, 1-octanol, and structural derivatives thereof.

RN=,NA,NA= REGISTRY NUMBERS: 111-87-5: 1-octanol; 71-41-0: 1-pentanol
DESCRIPTORS:
/DE,MC MAJOR CONCEPTS: Cell Biology; Methods and Techniques; Nervous System--Neural Coordination; Pharmacology; Toxicology
/DE,PS,PS= ORGANISMS: PARTS ETC: neuron--nervous system
/DE,DS DISEASES: alcoholism--behavioral and mental disorders, toxicity, drug therapy
/DE,MH MESH TERMS: Alcoholism (MeSH)
/DE,NA,NA=,SY,SY= CHEMICALS & BIOCHEMICALS: 1-octanol; 1-pentanol
/DE,MQ METHODS & EQUIPMENT: method for antagonizing inhibition effects of alcohol on cell adhesion--pharmacological method
/DE,MI MISCELLANEOUS TERMS: cell adhesion

CC=,CN= CONCEPT CODES:
02502 Cytology - General
02506 Cytology - Animal
07004 Behavioral biology - Human behavior
12512 Pathology - Therapy
20504 Nervous system - Physiology and biochemistry
21004 Psychiatry - Addiction: alcohol, drugs, smoking
22002 Pharmacology - General
22501 Toxicology - General and methods

BASIC INDEX

SEARCH SUFFIX	DISPLAY CODE	FIELD NAME	INDEXING	SELECT EXAMPLES
—	—	All Basic Index Fields	Word	S NEUROTOXICITY(W)GLUTAMATE?
/AB	AB	Abstract ¹	Word	S VETERINARY(W)THERAP?/AB
/CO	CO	Company Name (Patent Assignee) ^{2,3,5}	Word	S ALLERGAN(W)SALES/CO
/DE	DE	Descriptor ^{5,6}	Word & Phrase	S BACTERIA/DE S SLUDGE BACTERIA?/DE
/DS	DS	Diseases and Disease Modifiers ^{4,5}	Word & Phrase	S ALCOHOLISM/DS S ALCOHOL WITHDRAWAL?/DS
/GE	GE	Gene Name ^{2,5,7}	Word & Phrase	S STAPHYLOCOCCUS(W)AUREUS/GE S STAPHYLOCOCCUS AUREUS?/GE
/GN	GN	Geographic Name ^{2,5,8}	Word & Phrase	S (US OR USA OR UNITED(W)STATES)/GN S BAJA CALIFORNIA?/GN
/MC	MC	Major Concepts ^{5,8,9}	Word & Phrase	S TOXICOLOGY/MC S POLLUTION ASSESSMENT/MC
/MH	MH	MeSH Heading ^{5,10}	Word & Phrase	S ALCOHOLISM/MH S ALCOHOLISM (MESH)/MH
/MI	MI	Miscellaneous Descriptors ⁵	Word & Phrase	S LIGHT/MI S CELL ADHESION/MI
/MQ	MQ	Methods and Equipment ^{4,5}	Word & Phrase	S CELL(W)ADHESION/MQ S VETERINARY THERAP?/MQ
/NA	NA	Chemical Name ^{2,5,8}	Word & Phrase	S ANTIINFECTIVE(W)DRUG/NA S CHELATING METAL?/NA
/OI	OI	Organism Names and Modifiers ^{2,5,11}	Word & Phrase	S BACTERIA/OI S BACILLUS ANTHRACIS?/OI
/PS	PS	Organism Parts, Structures and Systems ^{4,5}	Word & Phrase	S CIRCULATORY(W)SYSTEM/PS S NEURON(S)NERVOUS SYSTEM?/PS
/SQ	SQ	Molecular Sequence Databank Number ^{4,5}	Word & Phrase	S AMINO(W)ACID?/SQ S AJ315962/SQ/SQ
/SY	SY	Chemical Name ^{2,5,8}	Word & Phrase	S TETRACYCLINE/SY S CHELATING METALS/SY
/TI	TI	Series Title	Word	S INTERNATIONAL(W)CONGRESS?/TI
/TI	TI	Title	Word	S TETRACYCLINE(W)RESISTAN?/TI
/TM	TM	Time (Geologic)	Word & Phrase	S CENOZOIC/TM S MESOZOIC?/TM

¹ Abstracts for BA records from July 1976 forward and for BA/RRM book synopses from 1985 forward.

² Searchable in the Basic Index and in the Additional Indexes.

³ From 1986 forward.

⁴ From 1998 forward.

⁵ Also searchable as /DE, /DF, /KW and displayable with DE.

⁶ Includes Common Taxonomic Terms, Biosystematic Names, Chemical Names, Diseases, Geographic Name, Major Concepts, Methods & Equipment, Miscellaneous Descriptors, Organism Names, Sequence Data, Synonyms, Time Descriptors, and MeSH Terms.

⁷ From 2001 forward.

⁸ From 1993 forward.

⁹ Truncation is recommended for phrase-indexed /MC terms.

¹⁰ From January 1998 forward.

¹¹ Includes Biosystematic Names, Organisms, Biosystematic Classification Names and Super Taxa.

ADDITIONAL INDEXES

SEARCH PREFIX	DISPLAY CODE	FIELD NAME	INDEXING	SELECT EXAMPLES
AA=	AA	BIOSIS Accession Number	Phrase	S AA=200200270290
AU=	AU	Author	Phrase	S AU=HALLING-SORENSEN B
—	AZ	DIALOG Accession Number		
BC=	BC	Biosystematic Classification or Super Taxa Name	Phrase	S BC=BACTERIA S BC=75403
BN=	BN	International Standard Book Number (ISBN)	Phrase	S BN=0-387-98805-X
BN=	DE	Biosystematic Name ^{8,11}	Phrase	S BN=BACTERIA?
CC=	CC	Concept Code	Phrase	S CC=22501
CL=	CL	Patent Classification	Phrase	S CL=514-724
CL=	LO	Conference Location ^{8,13}	Word	S CL=(FORT(W)WORTH(W)TX)
CN=	CN	Concept Name	Phrase	S CN=PUBLIC HEALTH?
—	CN	Patent Country		
CO=	CO	Company Name(Patent Assignee) ^{2,3,5}	Phrase	S CO=THE UNITED STATES?
CS=	CS	Corporate Source ¹⁴	Word & Phrase	S CS=(DANISH(W)SCHOOL?) S CS=APPLIED ALGAE RESEARCH?
CT=	CT	Conference Title ¹³	Word	S CT=(DIGESTIVE(W)DISEASE)
CY=	CY	Conference Year ^{8,13}	Phrase	S CY=2002
DA=	DA	Conference Date ^{8,13}	Word	S DA=20020519
DT=	DT	Document Type ¹³	Phrase	S DT=ARTICLE
EC=	EC	Enzyme Commission Number ⁸	Phrase	S EC=EC 2.5.1.18
GE=	GE	Gene Name ^{2,5,7}	Phrase	S GE=G-FOS GENE
GN=	GN	Geographic Name ^{2,5,8}	Word & Phrase	S GN=(UJI(W)JAPAN) S GN=UKRAINE (EUROPE)?
JN=	JN	Journal Name	Phrase	S JN=ARCHIVES OF ENVIRONMENTAL CONTAM?
LA=	LA	Language ¹⁴	Phrase	S LA=ENGLISH
—	ME	Medium Type		
NA=	NA	Chemical Name ^{2,5,8}	Phrase	S NA=5-ALPHA,6-ANHYDROCHLOR?
NT=	NT	New Taxa ⁸	Phrase	S NT=NEW TAXA
OI=	OI	Organism Names ^{2,5,8,15}	Phrase	S OI=ARTHROPODS
PA=	PA	Patent Assignee ³	Word & Phrase	S PA=(UNITED(W)STATES) S PA=RHONE-POULENC?
PD=	PD	Patent Date ³	Phrase	S PD=20020319
PN=	PN	Patent Number ³	Phrase	S PN=US 6359015
—	PR	BIOSIS Print Number		
PU=	PU	Publisher ⁸	Word & Phrase	S PU=(HUMANA(W)PRESS) S PU=HUMANA PRESS?
PY=	PY	Publication Year	Phrase	S PY=2002
RN=	RN	CAS(R) Registry Number	Phrase	S RN=57-62-5
RT=	RT	Record Type	Phrase	S RT=ABSTRACT
SN=	SN	International Standard Serial Number (ISSN)	Phrase	S SN=0090-4341 S SN=00904341
SO=	SO	Source Information ¹⁷	Word	S SO=(OFFICIAL(W)GAZETTE AND 1256)
SP=	SP	Sponsor ⁴	Word & Phrase	S SP=(AMERICAN(W)SOCIETY(1W)MICROBIOLOGY) S SP=AMERICAN SOCIETY?
SY=	SY	Chemical Name ^{2,5,8}	Phrase	S SY=OXYTETRACYCLINE?
UD=	—	Update	Phrase	S UD=9999

¹² Available for records from 1989 forward.

¹³ For meetings and conferences use /CONF limit.

¹⁴ In BA records since January 1978: in BA/RRM records since January 1980.

¹⁵ Does not include modifiers.

¹⁶ From 1994 forward.

¹⁷ Search and Display include Journal Name, Volume, Issue, Pagination, and Publication Year.

File 157

SPECIAL FEATURES

BIOSIS® Toxicology

For command descriptions, enter HELP LIMIT, HELP SORT, HELP RANK, HELP MAP, HELP DUP, HELP CURRENT online.

LIMIT	/ABS -- Abstract Present /CONF -- Also /MEETING; Conference Papers and Meetings /ENG -- English Language /HUMAN -- Human Subject /YYYY -- Publication Year	S BACTERIA/ABS S GENOME/CONF S S3/ENG S S4/HUMAN S S2/2001:2002
SORT	AU, CS, JN, PY, TI	SORT S3/ALL/AU PRINT S5/5/1-86/AU/TI
RANK	All phrase- and numeric-indexed fields in the Additional Indexes can be ranked.	RANK AU S3
MAP	PA, PN, PU, RN, SY, SYRN	MAP RN TEMP S2
RD, ID	Remove duplicates (RD) or identify duplicates (ID,IDO).	RD S5
CURRENT	Search only the most recent year plus one (CURRENT1) to five (CURRENT5) years.	B 157 CURRENT2

PREDEFINED FORMAT OPTIONS

NO.	DIALOGWEB FORMAT	RECORD CONTENT
1	--	DIALOG Accession Number
2	--	Full Record except Abstract
3	Medium	Bibliographic Citation ¹⁸
4	--	Full Record with Tagged Fields ¹
5	--	Full Record ¹
6	Free	Title and Publication Year
7	Long	Bibliographic Citation and Abstract ¹
8	Short	Title, Indexing and Publication Year
9	Full	Full Record ¹
K	--	KWIC (Key Word In Context) displays a window of text; may be used alone or with other formats

¹⁸ Includes the patent number.

OTHER OUTPUT OPTIONS

For an explanation, enter HELP TYPE, HELP UDF, HELP TAG online.

USER DEFINED FORMATS	User-defined formats may be specified using the display codes indicated in the Search Options tables.	TYPE S2/AU,TI,SO/1-5
TAG	Output can be displayed with tags identifying each display field.	TYPE S3/AU,TI,SO/1-5 TAG
DIRECT RECORD ACCESS	DIALOG Accession Number	TYPE 00056397/3 DISPLAY 00023589/AU,TI PRINT 00038167/9

FOR ONLINE HELP:

See HELP FIELDS 157 for searchable fields; HELP FORMAT 157 for output formats; HELP LIMIT 157 for limits; HELP RATES 157 for cost information; HELP SORT 157 for sorts.