

## BIOTECHABS/BIOTECHDS (Derwent Biotechnology Abstracts)

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BIOTECHABS Derwent Biotechnology Resource 1982-2010  
 BIOTECHDS Derwent Biotechnology Resource 1982-2010 (Subsc.)

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- Subject Coverage**
- Agriculture
  - Biocatalysis
  - Biochemical Engineering
  - BIOINFORMATICS methodologies, databases, hardware and software
  - Cell Culture
  - Chemistry: Physicochemical and Biological Assays relevant to Biotechnological Processes
  - Downstream Processing
  - Food Additives and SCP
  - Fuels produced by Fermentation or Similar Processes
  - GENOMICS and PROTEOMICS, including pharmacogenomics, expression profiling, ESTs and SNPs, and high throughput screening
  - Microbiology: Genetics and Fermentation
  - Other Chemicals produced by Microorganisms and Enzymatic Synthesis
  - Pharmaceuticals produced by Microorganisms and Enzymatic Synthesis
  - Tissue culture and engineering products, processes and applications
  - Waste Disposal
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**File Type** Bibliographic

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**Features**

Thesaurus	Controlled Term (/CT)		
Alerts (SDIs)	Not available		
CAS Registry Number® Identifiers	<input type="checkbox"/>	Page Images	<input type="checkbox"/>
<a href="#">Keep &amp; Share</a>	<input checked="" type="checkbox"/>	SLART	<input type="checkbox"/>
Learning Database	<input type="checkbox"/>	Structures	<input type="checkbox"/>

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- Record Content**
- Records contain bibliographic information, Derwent's abstract and controlled indexing.
  - For the file crossover to DWPI, the Derwent Accession Number is available in all patent records.
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**File Size** 479,398 citations

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**Coverage** 1982-2010

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**Updates** Static File

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**Language** English

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**Database Producer** Clarivate Analytics (UK) Limited  
 Friars House, 160 Black Friars Rd.  
 London SE1 8EZ  
 United Kingdom

Copyright Holder: Clarivate Analytics

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**BIOTECHABS/BIOTECHDS**

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**Sources**

- Journals
  - Patents
  - Conference contributions
- 

**User Aids**

- BIOTECHABS/BIOTECHDS Database Description
- Derwent Biotechnology Resource User Guide \*
- Derwent Biotechnology Resource Introduction \*
- Online Helps (HELP DIRECTORY lists all help messages available)
- STNGUIDE

\* Available from the producer

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**Clusters**

- ALLBIB
- AUTHORS
- BIOSCIENCE
- CHEMENG
- CORPSOURCE

STN Database Cluster information:

<http://www.stn-international.com/en/customersupport/customer-support#cluster+%7C+subjects+%7C+features>

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## Search and Display Field Codes

### General Search Fields

Search Field Name	Search Code	Search Examples	Display Codes
Basic Index (contains single words from title (TI), abstract (AB), and controlled term (CT), as well as enzyme commission numbers (EC))	None or /BI	S PRODUCTION OF CARBOCYCLIC NUCLEOSIDES  S EC-3.1.1.3 S LIPASE(L)CARBOXYLESTERASE	TI, AB, CT, EC
Accession Number	/AN	S 1992-14434/AN	AN
Application Country (WIPO code and text)	/AC	S EP/AC(S)1992/AY	AI
Application Date (1)	/AD	S EP/AC(S)20 FEB 1992/AD	AI
Application Number (2)	/AP	S 1992EP-0250036/AP S EP1992-250036/AP	AI
Application Year (1)	/AY	S 1991-1992/AY(S)FR/AC	AI
Author	/AU	S BAINES B S/AU S BAINES, B S/AU	AU
Classification Code (code and/or text)	/CC (or /CCEN)	S K/CC AND GLAXO/CS S LIPASE NOT BIOCATALYSIS/CC	CC
Controlled Term (3)	/CT	S SOIL DECONTAMINATION/CT	
Corporate Source (3)	/CS	S GRANADA-GENET?/CS S "GRANADA-GENET."/CS	CS
Document Type (code and text)	/DT (or /TC)	S K/CC AND P/DT S JOURNAL/DT AND SOIL DECONTAMINATION/CT	DT
Entry Date (1)	/ED (or /UP)	S ED>FEB 2009	ED
Enzyme Commission Number International (Standard) Document Number (contains CODEN and ISSN)	/EC /ISN	S EC-3.1.1.3/EC AND US/PC S EMTE2/ISN S 1001-0742/ISN	TI,AB,CT,EC ISN, SO
Journal Title	/JT	S DNA CELL BIOL./JT	JT, SO
Language (ISO code and text)	/LA	S DE/LA AND L10 S L7 AND ENGLISH/LA	LA
Location (4)	/LO	S GLAXO RESEARCH/LO	LO
Other Source (5)	/OS	S 1992-333672/OS	OS
Patent Assignee (3)	/PA	S PREUSSAG/PA S PROTEIN-DESIGN-LABS/PA	PA
Patent Country (WIPO code and text)	/PC	S EP/PC(S)1992/PY S UNITED KINGDOM/PC	PI
Patent Number (2)	/PN	S EP-507421/PN S EP507421/PN S EP0507421/PN	PI
Priority Country (WIPO code and text)	/PRC	S BE/PRC(S)1991/PRY S UNITED STATES/PRC	PRAI
Priority Date (1)	/PRD	S 18 FEB 1991/PRD	PRAI
Priority Date First (1)	/PRDF	S MARCH 1992/PRDF(S)JP/PRC	PRAI
Priority Number (2)	/PRN	S 1991EP-0200379/PRN S EP1991-200379/PRN	PRAI
Priority Year (1)	/PRY	S 1990-1991/PRY	PRAI
Priority Year, First (1)	/PRYF	S 1990-1991/PRYF(S)BE/PRC	PRAI
Publication Date (1)	/PD	S 7 OCT 1992/PD(S)EP/PC	PI
Publication Year (1)	/PY	S 1990-1991/PY(L)EMTE2/SO	PI, PY, SO
Source (contains journal title, CODEN, ISSN, collation and meeting information)	/SO	S ENZYME MICROB/SO S (DECHEMA(S)CONF?)/SO	SO
Title	/TI	S DECONTAMINATION OF SOIL/TI	TI

**BIOTECHABS/BIOTECHDS**

- (1) Numeric search field that may be searched using numeric operators or ranges.
- (2) Either STN or Derwent format may be used.
- (3) Search with implied (S) proximity is available in this field.
- (4) Search with implied (L) proximity is available in this field.
- (5) Contains the WPIDS/WPIX/WPINDEX accession number.

**Controlled Term (/CT) Thesaurus**

All Relationship Codes can be used with both the SEARCH and EXPAND command.

Code	Content	Examples
ALL	All Associated Terms (BT, SELF, USE, UF, EXA, TNA, SNA, EC, RT, OLD, NEW, NT, KT)	E FUNGICIDE+ALL/CT
AUTO (1)	Automatic Relationship (SELF, USE, UF, OLD, NEW, TNA, SNA, EC)	S FERMENTER+AUTO/CT
BT	Broader Terms (also BT1=1st level, BT2=2nd level etc.)	E BENOMYL+BT/CT
HIE	Hierarchy Terms (all broader and narrower terms) (BT, SELF, NT)	E PROTEASE+HIE/CT
KT	Keyword Terms (KT, SELF)	E ENZYME+KT/CT
NT	Narrower Terms (also NT1=1st level, NT2=2nd level etc.)	S FUNGICIDE+NT/CT
PFT	Forbidden and Preferred Terms (SELF, USE, UF)	S ANTIFUNGAL+PFT/CT
RT	Related Terms (SELF, RT)	E PESTICIDE+RT/CT
STD	Standard Terms (BT, SELF, NT, RT)	E DINOSEB+STD/CT
USE	Preferred Terms (SELF, USE)	S FERMENTER+USE/CT

- (1) Automatic Relationship is SET OFF. In case of SET REL ON the result of EXPAND or SEARCH without any relationship code is the same as described for AUTO.

**DISPLAY and PRINT Formats**

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

Hit-term highlighting is available for all fields. Highlighting must be ON during SEARCH to use the HIT, KWIC, and OCC formats.

Format	Content	Examples
AB	Abstract	D TI AB
AI (AP) (1)	Application Information	D AI
AN	Accession Number	D AN
AU	Author	D AU
CC (CCEN)	Classification Code (code and/or text)	D CC
CS	Corporate Source	D AU CS
CT	Controlled Term	D CT
DT (TC)	Document Type	D DT
EC (2)	Enzyme Commission Number	D EC
ISN (2)	International (Standard) Document Number	D ISN
JT (2)	Journal Title	D JT
LA	Language	D LA
LO	Location	D LO
LS	Legal Status (from INPADOCDB)	D LS
LS2	Legal Status (from INPADOCDB), detailed version with display headers	D LS2
OS	Other Source	D OS
PA	Patent Assignee	D PA TI 1-10
PI (PN) (1)	Patent Information	D PI PRAI

**DISPLAY and PRINT Formats (cont'd)**

Format	Content	Examples
PRAI (PRN) (1) PY (2) SO TI ABS ALL DALL IALL BIB IBIB FAM (1)  IND SCAN (3) TRIAL (TRI,SAM)	Priority Information Publication Year Source Title AN, AB AN, TI, AU, CS, PA, LO, SO, PI, AI, PRAI, DT, LA, OS, AB, CC, CT ALL, delimited for post processing ALL, indented with text labels AN, TI, AU, CS, PA, LO, SO, PI, AI, PRAI, DT, LA, OS (default) BIB, indented with text labels Family Information from the Derwent World Patents Index (PI, ADT, FDT, PRAI) AN, CC, CT AN, TI AN, TI, CC, CT	D PRAI D PY D SO D TI CT D TI ABS 1-5 DIS ALL D DALL D IALL 1-3 L4 D BIB ABS D IBIB KW D FAM  D IND D SCAN D TRI 1-10
HIT KWIC OCC	Hit term(s) and field(s) Up to 50 words before and after hit term(s) (KeyWord-In-Context) Number of occurrences of hit term(s) and field(s) in which they occur	D HIT D KWIC DOCC

(1) Application, priority and patent numbers are available in Derwent and STN format. The format for DISPLAY, PRINT, SELECT and SORT is controlled by the Messenger SET PATENT command. The STN format is default. 'SET PAT DERWENT' changes (permanently) to the Derwent format. To change to the STN format again, enter 'SET PAT STN'.

(2) Custom display only.

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

**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
Abstract	AB	Y (2)	N
Accession Number	AN	Y	N
Application Country	AC	Y	Y
Application Date	AD	Y	Y
Application Number	AP (AI)	Y	Y
Application Year	AY	Y	Y
Author	AU	Y	Y
Classification Code (code and/or text)	CC (CCEN)	Y	N
CODEN	CODEN	N	Y
Controlled Term	CT	Y	N
Corporate Source	CS	Y	Y
Document Type	DT (CT)	Y	Y

**SELECT, ANALYZE, and SORT Fields (cont'd)**

Field Name	Field Code	ANALYZE/ SELECT (1)	SORT
Enzyme Commission Number	EC	Y	Y
International (Standard) Document Number	ISN	Y (3)	Y
Journal Title	JT	Y	Y
Language	LA	Y	Y
Location	LO	Y	Y
Occurrence Count of Hit Terms	OCC	N	Y
Other Source (DWPI accession number)	OS	Y	Y
Patent Assignee	PA	Y	Y
Patent Country	PC	Y	Y
Patent Number	PN (PI)	Y	Y
Priority Country	PRC	Y	Y
Priority Date	PRD	Y	Y
Priority Date First	PRDF	Y	Y
Priority Number	PRN (PRAI)	Y	Y
Priority Year First	PRYF	Y	Y
Publication Date	PD	Y	Y
Publication Year	PY	Y	Y
Source	SO	Y (4)	N
Title	TI	Y (default)	Y

(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 AU.

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

(3) Selects or analyzes ISSN and CODEN with /ISN appended to the terms created by SELECT.

(4) Selects or analyzes ISSN and CODEN with /SO appended to the terms created by SELECT.

**Sample Records****DISPLAY ALL**

AN 1997-06228 BIOTECHABS

TI Purification, characterization, and properties of two xylanases from *Humicola insolens*;

endo-1,4-beta-D-xylanase isoenzyme isolation

AU Dusterhoft E M; Linssen V A J M; Voragen A G J; Beldman G

CS Univ.Wageningen-Agr.

LO Department of Food Chemistry and Microbiology, Wageningen Agricultural University, P.O. Box 8129, 6700 EV Wageningen, The Netherlands.

SO Enzyme Microb.Technol.; (1997) 20, 6, 437-45

CODEN: EMTED2 ISSN: 0141-0229

DT Journal

LA English

AB Two endo-1,4-beta-D-xylanases (EC-3.2.1.8), xyl1 and xyl2, were purified from a commercial enzyme preparation derived from *Humicola insolens* by anion-exchange chromatography, size-exclusion chromatography and cation-exchange chromatography. The homogenous proteins had a mol.weight of 6,000 and 21,000, and isoelectric points of 9.0 and 7.7 for xyl1 and xyl2, respectively. Both enzymes had similar pH and temperature optima (pH 6-6.5 and 55-60 deg), but their stability at various pH and temperature differed. The molar activity towards beech, birch and larch xylan, and wheat arabinoxylans was higher for xyl2. Both enzymes had remarkably lower molar activities toward the insoluble fractions of these xylans or toward the essentially insoluble beech xylan, but the decrease was less pronounced with xyl2. This might be explained by differences in specific adsorption, with xyl2 adsorbing strongly on beech xylan. In contrast to xyl1, xyl2 was markedly inhibited by a number of metal ions. The reaction

products formed during hydrolysis of different xylans and the end products were the same for both enzymes, but their relative proportions differed slightly. (34 ref)

CC K BIOCATALYSIS; K1 Isolation and Characterization  
 CT HUMICOLA INSOLENS ENDO-1,4-BETA-D-XYLANASE ISOENZYME PURIFICATION,  
 CHARACTERIZATION FUNGUS ENZYME EC-3.2.1.8 (VOL.16, NO.11)

**DISPLAY IBIB**

ACCESSION NUMBER: 2001-00753 BIOTECHABS  
 TITLE: Microalgae: a green source of renewable H<sub>2</sub>;  
 recent advances in algal hydrogen production using e.g.  
 Chlamydomonas reinhardtii; a review  
 AUTHOR: Ghirardi M L; Zhang L; Lee J W; Flynn T; Seibert M; Greenbaum  
 E; \*Melis A  
 CORPORATE SOURCE: Nat.Renewable-Energy-Lab.Colorado; Univ.California;  
 Oak-Ridge-Nat.Lab.  
 LOCATION: University of California, Berkeley, CA 94720-3102, USA.  
 Email: melis@nature.berkeley.edu  
 SOURCE: Trends Biotechnol.; (2000) 18, 12, 506-11  
 CODEN: TRBIDM  
 ISSN: 0167-9430  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English

**DISPLAY ALL FAM (Derwent format)**

AN 1997-04239 BIOTECHABS  
 TI Crystallization of macromolecules;  
 e.g. nucleic acid crystallization method  
 AU Fibi M  
 PA Behringwerke  
 LO Marburg, Germany.  
 PI EP----757057 5 Feb 1997  
 AI 1996EP-0110784 4 Jul 1996  
 PRAI 1995DE-1028507 3 Aug 1995  
 DT Patent  
 LA German  
 OS WPI: 1997-121141 [12]  
 AB Macromolecules such as glycoproteins and nucleic acids are crystallized in the presence of a 4-(1-18C alkyl)-umbelliferone salt (A). In a preferred process, (A) is 4-methylumbelliferone sodium salt. A solution containing the macromolecule at 0.1-10,000 ug/ml is mixed at a ratio of 1000:1 to 1:1000 with a solution of 0.1-1,000 mM (A), and the mixture is incubated at 0-25 deg. The macromolecule solution is preferably a phosphate buffer solution (pH 3-9) containing 1-500 mM (A), provided that the concentration of (A) in the macromolecule solution is less than that in the crystallization solution. The crystallized macromolecules may be used for X-ray structural analysis, as a pharmaceutical or as seed crystals. (4pp)  
 CC A GENETIC ENGINEERING AND FERMENTATION; A1 Nucleic Acid Technology  
 CT MACROMOLECULE E.G. NUCLEIC ACID CRYSTALLIZATION METHOD (VOL.16, NO.8)  
 PI EP-----757057 A2 19970205 (199712)\* DE 4[0]  
 DE----19528507 A1 19970206 (199712) DE 4[0]  
 AU----9660863 A 19970206 (199714) EN  
 CA----2182635 A 19970204 (199723) EN  
 JP----09118597 A 19970506 (199728) JA 4[0]  
 EP-----757057 A3 19970528 (199732) EN  
 KR----97010790 A 19970327 (199814) KO  
 ADT EP-----757057 A2 1996EP-000110784 19960704; DE----19528507 A1  
 1995DE-100028507 19950803; EP-----757057 A3 1996EP-000110784 19960704;

## BIOTECHABS/BIOTECHDS

AU-----9660863 A 1996AU-000060863 19960801; CA-----2182635 A  
 1996CA-002182635 19960802; JP----09118597 A 1996JP-000204353 19960802;  
 KR----97010790 A 1996KR-000032382 19960802  
 PRAI 1995DE-100028507 19950803

## EXPAND in CT THESAURUS

=&gt; e fungicide+all/ct

E1 15381 BT1 ANTIBIOTIC/CT  
 E2 932 BT2 AGRICULTURE/CT  
 E3 9736 BT1 pesticide/CT  
 E4 4165 --> FUNGICIDE/CT  
 E5 22 UF antifungal/CT  
 E6 591 UF antimicrobial/CT  
 E7 5 UF antimycotic/CT  
 E8 3 UF fungistatic/CT  
 E9 53 NT1 AMPHOTERICIN/CT  
 E10 13 NT1 AZASERINE/CT  
 E11 17 NT1 BAFILOMYCIN/CT  
 E12 53 NT1 BENOMYL/CT  
 E13 12 NT1 BLASTICIDIN-S/CT  
 E14 3 NT1 BUTALACTIN/CT  
 E15 2 NT1 DAPIRAMYCIN/CT  
 E16 1 NT1 DEHYDROIVAXILLIN/CT  
 E17 15 NT1 DINOSEB/CT  
 E18 17 NT1 EMODIN/CT  
 E19 18 NT1 GRISEOFULVIN/CT  
 E20 62 NT1 ITURIN/CT  
 E21 4 NT1 LYDICAMYCIN/CT  
 E22 8 NT1 METALAXYL/CT  
 E23 79 NT1 NIKKOMYCIN/CT  
 E24 1 NT1 NITROSO FUNGIN/CT  
 E25 54 NT1 NYSTATIN/CT  
 E26 32 NT1 OLIGOMYCIN/CT  
 E27 450 NT1 PENTACHLOROPHENOL/CT  
 E28 13 NT1 SINEFUNGIN/CT  
 E29 0 NT1 VIRIDOFULVIN/CT  
 E30 0 KT FUNGICIDE RESISTANCE/CT

\*\*\*\*\* END \*\*\*\*\*

**In North America**

CAS  
 STN North America  
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 Columbus, Ohio 43210-0012 U.S.A.

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 614-447-3700 (worldwide)  
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 Internet: www.cas.org

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 STN Europe  
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 76012 Karlsruhe  
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 Phone: +49-7247-808-555  
 Fax: +49-7247-808-259  
 Email: helpdesk@fiz-karlsruhe.de  
 Internet: www.stn-international.com

**In Japan**

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 International Chemical Information)  
 STN Japan  
 Nakai Building  
 6-25-4 Honkomagome, Bunkyo-ku  
 Tokyo 113-0021, Japan  
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 +81-3-5978-3621 (Customer Service)  
 Fax: +81-3-5978-3600  
 Email: support@jaici.or.jp (Technical Service)  
 customer@jaici.or.jp (Customer Service)  
 Internet: www.jaici.or.jp