

FSTA (Food Science and Technology Abstracts)

| | | |
|-------------------------|---|---|
| Subject Coverage | <ul style="list-style-type: none"> • Additives, spices, and condiments • Alcoholic and non-alcoholic beverage • Biotechnology • Breeding • Catering, speciality, and multi-component foods • Cereals and bakery products • Cocoa, chocolate, and sugar confectionary products • Economics • Eggs and egg products • Engineering • Enology • Fats, oils, and margarine • Fish and marine products | <ul style="list-style-type: none"> • Food sciences • Fruits, vegetables, and nuts • Hygiene and toxicology • Meat, poultry, and game • Microbiology of wine • Milk and dairy products • Morphology • Packaging • Physiology • Plant pathology • Soils • Sugars, syrups, and starches • Viticulture |
|-------------------------|---|---|

File Type Bibliographic

| | | | | |
|-----------------|----------------------------------|-------------------------------------|-------------|-------------------------------------|
| Features | Thesaurus | Controlled Term (/CT) | | |
| | Alerts (SDIs) | Weekly | | |
| | CAS Registry Number® Identifiers | <input type="checkbox"/> | Page Images | <input type="checkbox"/> |
| | Keep & Share | <input checked="" type="checkbox"/> | SLART | <input checked="" type="checkbox"/> |
| | Learning Database | <input type="checkbox"/> | Structures | <input type="checkbox"/> |

Record Content Bibliographic information, indexing, and in most cases an abstract.

File Size More than 1.59 million citations (09/2020)

Coverage 1969-present

Updates Weekly

Language English

Database Producer International Food Information Service
 IFIS Publishing
 The Granary,
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 Copyright Holder

**Database
Supplier**

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P.O. Box 2465
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Fax: +49-7247-808-259
Email: helpdesk@fiz-karlsruhe.de

Sources

- About 4,500 Journals
 - Books
 - Conference proceedings
 - Reports
 - Patents
 - Pamphlets
 - Legislation
 - Dissertations
-

User Aids

- FSTA Thesaurus*
 - Online Helps (HELP DIRECTORY lists all help messages available)
 - STNGUIDE
- * Available at producer and online
-

Clusters

- AGRICULTURE
 - ALLBIB
 - AUTHORS
 - BIOSCIENCE
 - CORPSOURCE
 - FOOD
 - HPATENTS
 - PATENTS
 - TOXICOLOGY
- STN Database Cluster information:
<http://www.stn-international.com/en/customersupport/customer-support#cluster+%7C+subjects+%7C+features>
-

Search and Display Field Codes

Fields that allow left truncation are indicated by an asterisk (*).

General Search Fields

| Search Field Name | Search Code | Search Examples | Display Codes |
|--|-------------------|---|------------------|
| Basic Index* (contains single words from title (TI), abstract (AB), controlled term (CT) and trade name (TN) fields) | None or /BI | S JUICE EXTRACT? S BEEF (L) ROUTINE TEST? S SWEETZYME T S ?FISH? | AB, CT, TI TN |
| Abstract* | /AB | S ?POLYPHENOL/AB | AB |
| Accession Number | /AN | S "2001(12):T1157"/AN S 2002:A0009/AN | AN |
| Author (includes Inventor) | /AU (or /IN) | S MARTH, E H/AU S MARTH E H/AU | AU, SO, IN |
| Classification Code (code and text) (1) | /CC | S A#/CC S AE/CC S DOG FOODS/CC | CC |
| Controlled Term | /CT | S PROTEIN PRODUCTS/CT | CT |
| Controlled Word | /CW | S ACID/CW | CT |
| Corporate Source (includes Patent Assignee) (1) | /CS | S KYOTO UNIV?/CS | CS, PA |
| Digital Object Identifier | /FTDOI | S 10.1001?/FTDOI | FTDOI, SO |
| Document Number | /DN | S 2012-05-CD1094/DN | DN |
| Document Type (code and text) | /DT (or /TC) | S L1 AND PATENT/DT | DT |
| Entry Date | /ED | S ED=20120 | ED |
| Field Availability | /FA | S L2 AND AB/FA | FA |
| International Standard (Document) Number | /ISN | S 0105-6883/ISN S 3110034956/ISN | ISN, SO |
| Inventor | /IN | S MANADA N/IN | IN |
| Journal Title | /JT | S FOOD MANUFACTURE/JT | JT, SO |
| Language (ISO code and text) | /LA | S L1 AND ENGLISH/LA | LA |
| Patent Assignee (1) | /PA | S HENKEL/PA | PA |
| Patent Country | /PC | S US/PC | PI |
| Patent Kind Code | /PK | S ATU1/PK | PI |
| Patent Number(2) | /PN (or /PATS) | S EP50394/PN S EP--50394/PATS S US20010001470 A1/PNK | PI |
| Patent Number Kind Code | /PNK | | PNK |
| Patent Number, Original | /PNO | S AT009008/PNO | PNO |
| Priority Country (3) | /PRC | S L1 AND JP/PRC | PRAI |
| Priority Date (3,4) | /PRD | S PRD=JAN 2003 | PRAI |
| Priority Number (2,3) | /PRN (or /APPS) | S CA1982-406357/PRN | PRAI |
| Priority Number, Original | /PRNO | S CA2 067 256/PRNO | PRNO |
| Priority Year (3,4) | /PRY | S 1991/PRY | PRAI |
| Publication Year (4) | /PY | S 2010-2011/PY | PY, SO, PI |
| Reference Count (4) | /REC (or /RE.CNT) | S REC=10 | REC, SO |
| Source (contains journal name, ISSN, volume, issues, pages, ISBN, No. of references) | /SO | S FOOD MANUFACTURE/SO S 1990/SO | SO |
| Summary Language (ISO code and text) | /SL | S L1 AND ENGLISH/SL S L1 AND EN/SL | SL |
| Title* | /TI | S CITRUS FRUIT#/TI | TI |
| Trade Name | /TN (or /CN) | S SWEETZYME T/TN | |
| Update Date (4) | /UP | S UP>MAY 2012 | UP |
| Word Count, Title (4) | /WC.T | S WC.T=>15 | WC.T |

(1) Search with implied (S) proximity is available.

(2) Patent and priority numbers are available in Derwent and STN format. STN is the default. Enter SET PAT DERWENT to change to the Derwent format. To return to the STN format, enter SET PAT STN.

(3) Priority information is available for records since 1988 only.

(4) Numeric search field that may be searched with numeric operators or ranges.

FSTA

Property Fields¹⁾

In FSTA a numeric search for a specific set of physical properties (/PHP) is available within the basic index, title, and abstract fields. The numeric values are not displayed as single fields, but highlighted within the hit displays.

Use EXPAND/PHP to search for all available physical properties. A search with the respective field codes will be carried out in the abstract and title fields. The /PHP index contains a complete list of codes and related text for all physical properties available for numeric search.

| Field Code | Property | Unit | Search Examples |
|----------------|---|--------------------------|---|
| /AOS | Amount of substance | Mol | S 10 /AOS |
| /BIR | Bit Rate | Bit (Bit) | S 33/BIR |
| /BIT | Stored Information | Bit | S BIT > 3 MEGABIT |
| /CAP | Capacitance | Farad | S 1-10 MF/CAP |
| /CDN | Current Density | Ampere/Square Meter | S CDN>10 A /M**2 |
| /CMOL | Molarity (Concentration, amount of substance) | mol/l | S MOLYBD?/BI (S) 2/CMOL |
| /CON | Conductance | S (Siemens) | S 1S-3/CON |
| /DB | Decibel | Decibel | S DB>50 |
| /DEG | Degree | Degree | S MEDIUM RARE/BI (S) 5/DEG |
| /DEN | Density (Mass Density) | Kg/m3 | S (CELL? (S) RECOMBIN?)/AB (S) 5E-3-10E-3/DEN |
| /DEQ | Dose Equivalent | Sievert | S DEQ>0.5 (S) RADIATION |
| /DOS | Dosage | Milligram/Kilogram | S DOS>0.8 |
| /DV | Viscosity, dynamic | Pa * s (Pascal * second) | S DV>5000 |
| /ECH | Electric Charge | Coulomb | S 4000/ECH.EX (XA) ENZYME |
| /ECO | Electrical Conductivity | Siemens/Meter | S ECO>800 (XA) MINERAL |
| /ELC | Electric Current | Ampere | S 1-10/ELC |
| /ELF | Electric Field | Volt/Meter | S 650-700/ELF |
| /ENE | Energy | J (Joule) | S PROTEIN AND 22/ENE |
| /ERE | Electrical Resistivity | Ohm * Meter | S ERE>2 (P) CITRATE |
| /FOR | Force | N (Newton) | S 50 N /FOR |
| /FRE | Frequency | Hz (Hertz) | S ANALY?/AB (10A) 0-3/FRE |
| /IU | International Unit | none | S IU>1000 (P) ANTIBIOTIC |
| /KV | Viscosity, kinematic | m2/s | S FRUITS/AB (S) 10E-5/KV |
| /LEN (or /SIZ) | Length | Meter | S 1-4/LEN |
| /LUME | Luminous Emittance/Illuminance | Lux | S 10-50/LUME |
| /LUMF | Luminous Flux (Luminous Power) | Lumen | S LUMF>1000 |
| /LUMI | Luminous Intensity | Candela | S LUMI<4 |
| /M | Mass | Kg (Kilogram) | S ALLOY/BI (30A) 1E-10-1E-5/M |
| /MCH | Mass to Charge Ratio | none | S MCH=3 |
| /MFD (or /MFS) | Magnetic Flux Density | Tesla | S MFD>102 (S) LEMON |
| /MFR (or /MFL) | Mass Flow Rate | Kilogram/Second | S MFR<0.1 |
| /MM | Molar Mass | g/mol | S 2000-3000 G/MOL/MM |
| /MOLS | Molality of Substance | mol/kg | S 01.-10 MOL/KG/MOLS |
| /MVR | Melt Volume Rate | none | S 5-10 /MVR |

Property Fields¹⁾ (cont'd)

| Field Code | Property | Unit | Search Examples |
|--|--|---|--|
| /NUC /PER | Nutrition Content Percent (Proportionality) | none Percent | S NUC<100 (XW) NUTRIENT S (MOLECULAR (3A) POLYMER?)/AB (S) 4/PER |
| /PHV /POW | pH Power | pH W (Watt) | S 7.4-7.6/PHV S (ICE? OR WATER EXTRACT?)/BI (10A) 350/POW |
| /PRES (or /P) | Pressure | Pa (Pascal) | S (VACUUM (5A) DISTILL?)/BI (S) 1000-1100/PRES |
| /RAD /RES | Radioactivity Electrical Impedance/resistance | Bq (Becquerel) Ohm | S RAD?/BI (P) 10-100/RAD S MILK CONDUCTIVITY/AB (P) 10- 100/RES |
| /RSP /SAR | Rotational Speed Area /Surface Area | Revolution/Minute m2 | S 2-100/RSP AND MACHINE S (COATING? OR FOIL?)/BI (S) 10- 100/SAR |
| /SOL /STSC /TCO /TEMP (or /T) | Solubility Surface Tension Thermal Conductivity Temperature | Gram/100 gram J/m2 K (Kelvin) K (Kelvin) | S SOL>20 (10W) WATER S 60 J/M**2/STSC S 0.2-0.4/TCO (S) HEAT? S (REACTION? (25A) ENZYM?) (S) 5/TEMP |
| /TIM /VEL (or /V) | Time Velocity | S (Second) m/s (Metre per Second) | S ?INCUB?/AB (10W) 10-50/TIM S REDUC?/BI (S) 1E-3-5E-3/VEL |
| /VELA /VLR /VOL /VOLT | Velocity, angular Volumetric Flow Rate Volume Voltage | rpm Cubic Meter/Second m3 V (Volt) | S ANG?/AB (S) VELA>10 S 1-2/VLR (XA) POWDER S ?FUSION?/BI (15A) 1E-8-2E-8/VOL S CALIBRAT?/BI (10A) 5E- 3<VOLT<7E-3 |

(1) Exponential format is recommended for the search of particularly high or low values, e.g. 1.8E+7 or 1.8E7 (for 18000000) and 9.2E-8 (for 0.000000092).

Controlled Term (/CT) Thesaurus

All Relationship Codes can be used with both the SEARCH and EXPAND command in the /CT thesaurus.

| Code | Content | Examples |
|----------|---|------------------------|
| ALL | All Associated Terms (BT, SELF, HNTE, NOTE, USE, UF, NT, RT) | E FRUIT JUICES+ALL/CT |
| AUTO (1) | Automatic Relationship (SELF, USE, UF) | E JACK BEANS+AUTO/CT |
| BT | Broader Terms (BT, SELF) | E FROZEN YOGHURT+BT/CT |
| HIE | Hierarchy Terms (all Broader and Narrower Terms) (BT, SELF, NT) | E YOGHURT+HIE/CT |
| HNTE | History Note (SELF, HNTE) | E JAPAN+HNTE/CT |
| KT | Keyword Terms (SELF, KT) | E MUSTARD+KT/CT |
| NOTE | Scope Note (SELF, NOTE) | E LYASES+NOTE/CT |
| NT | Narrower Terms (SELF, NT) | S LYASES+NT/CT |
| RT | Related Terms (SELF, RT) | S DIFFUSION+RT/CT |
| UF | Preferred and Forbidden Terms (SELF,UF) | E F+UF/CT |
| USE | Forbidden and Preferred Terms (SELF,USE) | E COW CHEESE+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 AU. 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 AN AU CC CS CT DN DT ED (UP) FTDOI (1) IN ISN (1) JT (1) LA PA PI (PN, PATS) (2) PNO (PIO) PRAI (PRN, APPS) (2) PRNO (PRAO) PY (1) REC (RE.CNT) (1) SL SO TI TN (CN) WC.T (1) | Abstract Accession Number Author (or Inventor) Classification Code Corporate Source Controlled Term Document Number Document Type Entry Date Digital Object Identifier Inventor International Standard (Document) Number Journal Title Language Patent Assignee Patent Information Patent Number, Original Priority Information Priority Number, Original Publication Year Reference Count Summary Language Source Title Trade Name Word Count, Title | D AB, TI D 1-5 AN D AU 5 6 8-10 D CC, TI D TI AU CS D CT, TI D DN D DT, SO D ED D FTDOI D IN D ISN D JT D LA, TI D PA D PI, SO D PNO D PRAI, SO D PRNO D PY D REC D SL, TI D SO D TI, SO D TN D WC.T |
| ABS ALL (2) DALL (2) IALL (2) BIB (2) IBIB (2) IND SCAN (3) TRIAL (TRI, SAMPLE, SAM, FREE) | AN, AB AN, DN, TI, AU, CS, PA, SO, PI, PRAI, DT, LA, SL, AB, CC, CT, TN ALL, delimited for post processing ALL, indented with text labels AN, DN, TI, AU, CS, PA, SO, PI, PRAI, DT, LA, SL (BIB is the default) BIB, indented with field labels AN, CC, CT, TN TI, CC, CT (random display without answer numbers) AN, TI, CC, CT | D ABS D ALL 5-10 D DALL D IALL D BIB 1-10 D IBIB D IND D SCAN D TRI |
| 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 D OCC |

(1) Custom display only.

(2) By default, patent numbers and priority numbers are displayed in STN format. To display them in Derwent format, enter SET PATENT DERWENT at an arrow prompt. To reset display to STN format, enter set PATENT STN.

(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 | Y |
| Author | AU (IN) | Y | Y |
| Citation | CIT | Y (3,4) | N |
| Classification Code | CC | Y | N |
| Controlled Term | CT | Y | N |
| Corporate Source | CS (PA) | Y | Y |
| Digital Object Identifier | FTDOI | N | Y |
| Document Number | DN | Y | Y |
| Document Type | DT (TC) | Y | Y |
| Index Term | IT | Y | N |
| International Standard (Document) Number | ISN | Y (5) | N |
| Inventor | IN | Y | Y |
| Journal Title | JT | Y | Y |
| Language | LA | Y | Y |
| Occurrence Count of Hit Terms | OCC | N | Y |
| Patent Assignee | PA | Y | Y |
| Patent Country | PC (PCS) | Y | Y |
| Patent Kind Code | PK | Y | Y |
| Patent Number | PN (PI, PATS) | Y (6) | N |
| Patent Number, Original | PNO (PIO) | Y | Y |
| Priority Country | PRC | Y | Y |
| Priority Date | PRD | Y | Y |
| Priority Number | PRN (PRAI, APPS) | Y (6) | Y |
| Priority Number, Original | PRNO (PRAO) | Y | Y |
| Priority Year | PRY | Y | Y |
| Publication Year | PY | Y | Y |
| Reference Count | REC (RE.CNT) | Y | Y |
| Source | SO | Y (7) | N |
| Summary Language | SL | Y | Y |
| Title | TI | Y (default) | Y |
| Trade Name | TN (CN) | Y | Y |
| Update Date | UP (ED) | Y | Y |
| Word Count, Title | WC.T | Y | 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 TI.

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

(3) SELECT CIT allows you to extract the reference data from the source documents in this file and have them automatically converted to a citation format for searching in the SCISEARCH file. SEL CIT selects first author, publication year, volume, first page, and a truncation symbol with /RE appended.

(4) SELECT HIT or ANALYZE HIT are not valid with this field.

(5) Selects ISSN and ISBN with /ISN appended to the terms created by SELECT.

(6) SELECTed, ANALYZed and SORTed patent and priority numbers are in the format set by the Messenger SET PATENT command either Derwent or STN.

(7) Selects ISSN and ISBN with /SO appended to the terms created by SELECT.

Sample Records**DISPLAY BIB OF BOOK**

AN 2012:C1094 FSTA
 DN 2012-05-Cd1094
 TI Handbook of food safety engineering.
 AU Editor(s): Da-Wen Sun
 CS Univ. Coll. Dublin, Dublin, Republic of Ireland; The Atrium, Southern Gate, Chichester, PO19 8SQ, UK; Wiley-Blackwell. Tel. +44 01243 779777. Fax +44 01243 775878. E-mail cs-books@wiley.co.uk. www.wiley.com. Price GBP 249.99, EUR 300.00
 SO (2011), 864 p.
 ISBN: 9781444333343
 DT Book
 LA English
 ED Entered STN: 13 Feb 2012
 Last updated on STN: 11 Apr 2012

DISPLAY ALL OF JOURNAL

AN 2008:W0102 FSTA
 DN 2008-07-Wd0102
 TI Chemical composition, in vitro fermentation characteristics, and in vivo digestibility responses by dogs to select corn fibers.
 AU Guevara, M. A.; Bauer, L. L.; Abbas, C. A.; Beery, K. E.; Holzgraefe, D. P.; Cecava, M. J.; Fahey, G. C., Jr.
 CS Correspondence address, G. C. Fahey, Jr., Dep. of Animal Sci., Univ. of Illinois, Urbana, IL 61801, USA. Tel. 217 333-2361. Fac 217 333-7861. E-mail gcfahey@uiuc.edu
 SO Journal of Agricultural and Food Chemistry (2008), Volume 56, Number 5, pp. 1619-1626, 32 refs.
 ISSN: 0021-8561
 DOI: 10.1021/jf073073b
 DT Journal
 LA English
 ED Entered STN: 28 Apr 2008
 Last updated on STN: 16 May 2012
 AB The objective of this study was to examine the chemical composition, in vitro fermentation characteristics, and in vivo digestibility responses of fibre-rich corn coproducts resulting from corn wet milling. Native corn fibres, native corn fibres with fines, hydrolysed corn fibers and hydrolysed extracted corn fibres were analysed chemically and their capacity to produce short-chain fatty acids determined. Ash content was low (<1.2%), crude protein content varied little, but fat and fibre concentration varied widely. Most fibre was in the insoluble form, with glucose being predominant followed by xylose. Total short-chain fatty acid production ranged from 211.6 to 699.52 $\mu\text{mol/g}$ of dry matter, whereas branched-chain fatty acid production was low. 4 corn fibres (native and processed) were included in a canine diet matrix at the 7% inclusion level. Nutrient digestibility, food intake and faecal characteristics were not affected by corn fibre inclusion in canine diets, suggesting that they should be considered as potential dietary fibre sources in dog foods.
 CC Wd Pet foods : Dog foods
 CT CORN; DIGESTIBILITY; FIBRE; MILLING; WET MILLING; PET FOODS; DOG FOODS

DISPLAY IALL OF PATENT

ACCESSION NUMBER: 2012:W0099 FSTA
DOCUMENT NUMBER: 2012-07-Wv0099
TITLE: Formed jerky treats formulation and method.
INVENTOR(S): Weinberg, B.; Saxe, L.
PATENT ASSIGNEE(S): GlobalOne Pet Products Inc.; GlobalOne Pet Products,
Southlake, TX, USA
PATENT INFORMATION: US 20120082762 A1
PRIORITY INFO.: US 2010-388144 20100930
SOURCE: United States Patent Application Publication (2012)
DOCUMENT TYPE: Patent
LANGUAGE: English
ENTRY DATE: Entered STN: 23 Apr 2012
Last updated on STN: 16 May 2012
ABSTRACT: Pet treats containing unprocessed meat, and methods for
their manufacture are described. The method involves
combining meat that has not been extruded, ground,
emulsified, liquefied or formed into a powder, with at
least one binding agent and, optionally, one or more
preservative. The resultant mixture is then shaped.
CLASSIFICATION CODE: Wv Pet foods : Patents
CONTROLLED TERM: PATENTS; PET FOODS; PET TREATS

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