



ABITEC Corporation

Columbus, OH USA

Specialty Functional Ingredients

For the Pharmaceutical, Nutritional and Specialty Chemical Markets



About Us



Global supplier of...

High quality functional lipids and surfactants for the pharmaceutical, nutraceutical, and specialty chemical industries with extensive capabilities in contract/toll manufacturing

Headquarters

Columbus OH, USA

Manufacturing

Janesville WI and Paris IL, USA

Larodan, Inc.

Larodan, now owned and operated by ABITEC Corporation is located in the Karolinska Institute in Stockholm and has an outstanding global reputation for offering an expansive range of ultra-pure lipid reagents to support analytical and biomedical research programs

Certifications

Kosher, Halal, BRC, IPEC, RSPO, OHSAS 18001, ISO14001 and ISO9001

Brands

ACCONON[®], ACCOQUAT[®], CAPLUBE[®], CAPMUL[®], CAPROL[®], CAPTEX[®], HYDRO-KOTE[®], INJECTA[™], NUTRI SPERSE[®], PURECO[®], STEROTEX[®]

ABITEC Key Capabilities



Manufacturing

- Mono, di and triglycerides (C6 to C14)
- Quaternary ammonium surfactants and rinse cycle fabric softeners from reaction of tertiary amines with DMS
- Alkoxylated surfactants
- Polyglycerol and polyglycerol esters
- Alkanolamides
- Specialty Blending
- Prilling
- Flaking



Technical

- Development and manufacturing of lipids and lipid derivatives
- Analytical method development
- In-house regulatory support
- Development of high purity functional excipients for the pharmaceutical and nutritional markets

Larodan Key Capabilities



Chemical Synthesis and Manufacturing

- Neutral lipids
- Polar lipids
- Fatty acids
- Phospholipids
- Sphingolipids
- Oxylipins
- VLCFA (C32+)
- Radiolabelled/ Florescence tagged lipids
- Prostaglandins



Technical

- Custom lipid synthesis
- Enzymatic chemistry
- Analytical method development
- In-house technical support

Business Areas



Pharmaceuticals

Functional Lipid
Excipients

Our Excipients enhance

- Bioavailability
- Solubility
- Permeability
- Lubrication

For Use in:

- Self-Emulsifying Drug
Delivery Systems
- Tableting
- Topical applications

Ideal for BCS II, III & IV
formulations



Nutritional Sciences

Human and Companion
Pet Nutrition

Our Ingredients support

- Weight wellness
- Cognition
- Increased energy
- Enhanced
nutrient/vitamin
absorption

And Improve:

- Bioavailability
- Solubility
- Emulsification



Industrial Specialties

Multifunctional Products

Industries/markets

- Personal care and
cosmetics
- Car rinse aids
- Fabric softeners
- Candle formulations
- Agricultural adjuvants
- Lubricants and
metalworking fluids



Contract and Toll Manufacturing

Manufacturing and
Production Capabilities

- Mono, di and
triglycerides
- Surfactants
- Polyglycerol esters
- Alkanolamides
- Blending
- Prilling
- Flaking



Larodan

Ultra-pure Lipid
Reagents

Product categories address:

- Neutral and polar lipids
- Complex oxylipins
- Glycerides and
phospholipids

Product development and
custom lipid synthesis

Ideal for:

Lipidomics, metabolomics,
biophysics and drug delivery
applications

Larodan's Offering



Classification

- Fatty acids
- Glycerolipids
- Glycerophospholipids
- Sphingolipids
- Sterol lipids
- Prenol lipids
- Saccharolipids
- Polyketides

Characteristics

- small molecules
- substance of biological origin
- soluble in nonpolar solvents
 - hydrophobic or amphiphilic

Markets

- Food products
- Food ingredients
- Agriculture
- Biofuels
- Cosmetics
- Healthcare
- Pharma / Biotech
- Consumer chemicals

Functions

- Energy storage
- Signalling
- Cell membrane
- (structural components)



ABITEC's Portfolio



- CAPTEX® – *USP/EP Medium Chain Triglycerides*
Solubilizers, permeability enhancers, and lubricants
- CAPMUL® – *USP/EP Mono- and Diglycerides*
Solubilizers and emulsifiers
- ACCONON® – *USP/EP Pegylated Esters*
Solubilizers and surfactants
- CAPROL® – *Polyglycerol Esters*
Solubilizers, viscosity enhancers, and emulsifiers
- STEROTEX® – *USP/NF Hydrogenated Vegetable Oil*
Lubricant, dry-binder, and encapsulation
- HYDRO~KOTE® – *Hydrogenated Vegetable Oil*
Pharmaceutical and suppository base
- LARODAN – *Ultra Pure Lipid Reagents*
Custom and research grade lipids



Applications

- Solubility Enhancement
- Permeability Enhancement
- Self-Emulsifying Drug Delivery Systems
- Transdermal Penetration
- Tableting



Dosage Forms

- Softgels & Hardgels
- Tablets
- Creams
- Ointments
- Liquids
- Injectables
- Suppositories

Pharmaceutical Health



Functional lipid excipients for enhanced

- Solubility of BCS class II and class IV APIs
- Permeability of BCS class III and class IV APIs

CAPMUL® mono and diglycerides offer:

- Broad HLB range
- Multi-functional capabilities as a solubilizer
- Bioavailability and permeation enhancement

Customizable formulation performance with:

- Captex medium chain triglycerides
- Acconon nonionic surfactants

SENDS – Self-emulsifying Drug Delivery System

CAPTEX® medium chain triglycerides for:

- Soft gel ribbon lubrication and processing aids
- Medical device lubrication

STEROTEX® granular powders for:

- Release lubrication
- Delayed/controlled release
- Taste masking
- Moisture barrier protection



Nutritional Health

Markets

- Dietary Supplements
- Weight Management
- Sports Nutrition
- Animal Nutrition
- Clinical Nutrition
- Food, Flavor & Coatings
- Cannabis



Benefits

- Cognition
- Energy
- Satiety
- Keto Friendly
- Controlled Release
- Solubility
- Emulsification
- Bioavailability

Nutritional Health



Nutritional & Functional Lipids

CAPTEX® medium chain triglycerides provide support of:

- A healthy weight
- Healthy brain function
- Providing quick energy

NUTRI SPERSE® powdered nutritional lipids:

- Made from non-hydrogenated base oils
- Dairy and non-dairy
- Readily dispersible across a spectrum of hot and cold aqueous applications
- Add creamy texture and functionality products where liquid oils are not desired
- Meal replacement systems, nutritional beverages, bakery applications, clinical nutrition, sports drinks, energy bars, dry mixers and sauces

STEROTEX® granular powders for:

- Release lubrication
- Delayed/controlled release
- Taste masking
- Moisture barrier protection

CAPMUL® mono and diglycerides offer:

- Broad HLB range
- Multi-functional capabilities as a solubilizer
- Bioavailability and permeation enhancement

Specialty Chemicals



Markets

- Personal Care, Cosmetics & Candles
- Lubricants & Metalworking Fluids
- HI&I
- Car Rinse Aids
- Fabric Softeners



Benefits

- Surfactant
- Solubility
- Emulsification
- Emolliency
- Preservative Alternative
- Refatting Agents
- EO-free
- Base Fluids
- Friction Modifiers

Specialty Chemicals



- Range of oleochemical-based ethoxylates, propoxylates, and quaternaries for industrial applications
- Rinse cycle fabric softeners (industrial and consumer industries):
 - Diamido amine
 - Imidazolinium
 - TEA ester
- Car rinse aid emulsifiers for use in conveyor, in-bay automatic, and self-service car washes
- Eco-friendly personal and home care products
- Candle bases, additives, and fragrance solubilizers



Contract & Toll Manufacturing



- Convenient, cost-competitive service for customers looking to develop and manufacture new oleochemical molecules and blend or toll-manufacture an established product.
- Supply raw materials or manufacture with supplied raw materials.
- US plants are located near Chicago and Milwaukee making them convenient shipping locations for domestic and international destinations.
- General manufacturing and production capabilities:
 - Mono, di and triglycerides
 - Quaternary ammonium surfactants and rinse cycle fabric softeners
 - Alkoxylated surfactants (e.g., EO, PO, EO-PO blocks, EO-PO random)
 - Polyglycerols
 - Polyglycerol esters
 - Alkanolamides





Janesville, WI

Ester & Surfactant Manufacturing Plant



Plant Capabilities



Esterification Facility

Manufacturing Expertise

Polyglycerol Esters
Alkylene Glycol Esters
Mono-, Di- & Triglycerides
Structured Lipids

Registrations & Certifications

FDA-EPA
GFSI-BRC Standard for Food Safety Issue 6
ISO 9001 & 14001
Kosher & Halal
OHSAS 18001
cGMP
Audited by GMA-SAFE, Meets rating
HACCP developed for specific products
Process Safety Management (PSM) process followed
Batch processes, quality practices (including mock recalls) insure traceability

Surfactant Facility

Manufacturing Expertise

Alkoxylation (EO/PO)
Amides (MEA)
N-alkylation (Quats)
(Amines)

Registrations & Certifications

FDA-EPA
ISO 9001 & 14001
cGMP
Process Safety Management (PSM) process followed





Paris, IL

Solids Manufacturing
Storage & Distribution



Plant Capabilities



Solids Manufacture

Manufacturing Expertise

Flaking
Spray Chilling
Liquid Blending and Formulation

Registrations & Certifications

Flaking, Specialty blending, Spray chilling
FDA
ISO 9001
Kosher & Halal
cGMP
Audited by GMA-SAFE, meets rating
HACCP program in operation
Process Safety Management (PSM) process followed
Batch processes, quality practices (including mock recalls) insure traceability

Warehousing Distribution

Capabilities

- Racked Cold Storage
- Bulk & Packaged Products
- Product Storage
- Raw Material Storage



ABITEC Support



TECHNICAL

- Applications Research
- Formulation Suggestions
- Technical documents
- Seminars

REGULATORY

- Regulatory documents
- Certifications
- SDS
- DMF

LOGISTICS

- Global distribution
- Local in-country representatives

MANUFACTURING

- c-GMP Manufacturing
- FDA audited facility
- Agile
- Customizable

Resources

WEBSITE

<http://www.abiteccorp.com/>



LINKEDIN

<https://www.linkedin.com/company/abitec-corporation/>



YOUTUBE

<https://www.youtube.com/channel/UC9mfJCBOstRuc-i2Asgu4VQ>



TWITTER

<https://twitter.com/abiteccorp>