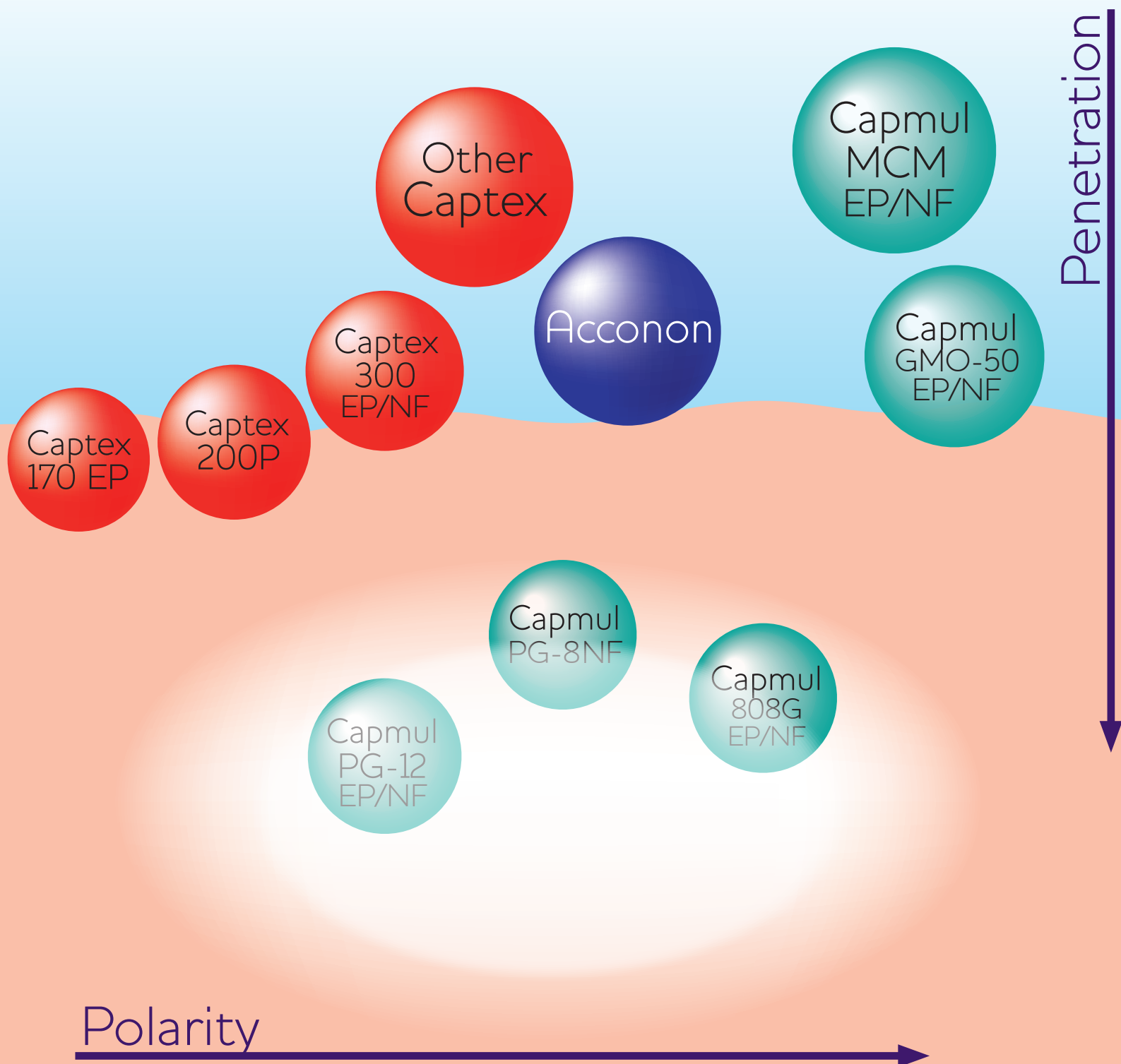


DERMAL APPLICATIONS

Topical and Transdermal

Lipid-based drug delivery systems provide a vast array of possibilities to formulations as they potentially increase the bioavailability of a number of poorly soluble drugs. Lipid formulations are beneficial for transdermal and topical drug delivery. **ABITEC** develops and manufactures functional lipid excipients that allow for improved solubility and drug delivery both of these applications. These products can be custom formulated to meet your individual drug delivery requirements.





Our Solutions Portfolio

There are many factors which affect the permeability of the skin and limit the diffusion of your API through the stratum corneum. **ABITEC's** lipid-based solvents and surfactants can enhance the penetration of your API through the skin. Skin hydration is also a contributing factor to skin permeability: the higher the hydration, the greater the permeability. Our range of emulsifiers and surfactants can provide enhanced hydration of the dermal layers, increasing API permeability in water-in-oil and oil-in-water systems. If you are in need of a solvent for your nonpolar API, our **CAPMUL** Mono- and Diglycerides provide excellent solvency for your transdermal application. Our lipid-based excipients will provide solutions to improve solubility, formulation stability and enhanced permeation of your API.

Solubilizer/Skin Penetration Enhancer

CAPTEX® MEDIUM CHAIN TRIGLYCERIDES

CAPTEX® PROPYLENE GLYCOL DIESTERS

CAPMUL® MONO AND DI-GLYCERIDES

CAPMUL® PG12 EP/NF

CAPMUL® PG8 NF

CAPMUL® PG2L EP/NF

Emulsifier

CAPMUL® MONO AND DI-GLYCERIDES

CAPMUL® GMO-50 EP/NF

Stabilizer/Co-emulsifier

ACCONON® C-44 EP/NF

ACCONON® MC8-2 EP/NF

ACCONON® AKG-6 EP/NF (Developmental)

ACCONON® C-50 EP/NF (Developmental)

EXCIPIENT CLASSIFICATION

Trade Name	Chemical Name	Monograph
Captex® 170 EP	Cocoyl Carpylocaprate	Cocoyl Caprylocaprate (EP)
Captex® 200P	Propylene glycol dicaprylocaprate	Propylene glycol dicaprylocaprate (EP) Propylene Glycol Dicaprylate/dicaprate (NF)
Captex® 300 EP/NF	Caprylic/Capric Triglyceride	Triglycerides, Medium Chain (EP) Medium Chain Triglyceride (NF)
Captex® 300 Low C6 EP/NF/JPE	Caprylic/Capric Triglyceride	Triglycerides, Medium Chain (EP) Medium Chain Triglyceride (NF)
Captex® 1000	Tricaprin	No Monograph
Captex® 8000	Glycerol Tricaprylate	No Monograph
Capmul® MCM EP/NF	Glyceryl Caprylate/Caprate	Glyceryl Monocaprylocaprate Type I (EP) Glyceryl Monocaprylocaprate Type I (NF)
Capmul® MCM C8 EP/NF	Glyceryl Monocaprylate	Glycerol Monocaprylate Type I (EP) Glycerol Monocaprylate Type I (NF)
Capmul® GMO-50 EP/NF	Glyceryl Monooleate	Glycerol Mono-oleates (EP) Glyceryl Monooleate (NF)
Capmul® 808G EP/NF	Glyceryl Monocaprylate	Glycerol Monocaprylate Type II (EP, NF)
Capmul® PG-8 NF	Propylene Glycol Monocaprylate	Propylene Glycol Monocaprylate Type II (NF)
Capmul® PG-12 EP/NF	Propylene Glycol Monolaurate	Propylene Glycol Monolaurate Type II (EP, NF)
Acconon® AKG-6 EP/NF*	Oleoyl Macrogolglycerides, Oleoyl Polyoxylglycerides	Oleoyl Macrogolglycerides (EP) Oleoyl Polyoxyglycerides (NF)
Acconon® C-44 EP/NF	PEG-32 Lauric Glycerides	Lauroyl Macrogolglycerides (EP) Lauroyl Polyoxyglycerides (NF)
Acconon® C-50 EP/NF*	Stearoyl Macrogolglycerides, Stearoyl Polyoxylglycerides	Stearoyl Polyoxylglycerides (NF) Stearoyl Macrogolglycerides (EP)
Acconon® MC8-2 EP/NF	PEG-8 Caprylic/Capric Glycerides	Caprylocaproyl Macrogolglycerides (EP) Caprylocaproyl Polyoxyglycerides (NF)

* Developmental



Fatty Acid Distribution (%)	Composition (%)	Appearance
Capric (C10) ≈ 45 Caprylic (C8) ≈ 55 Coco fatty alcohol esters	Wax Ester (100)	Clear colorless liquid
Capric (C10) ≈ 45 Caprylic (C8) ≈ 55	Propylene Glycol Diester (100)	Clear colorless liquid
Capric (C10) 25 - 35 Caprylic (C8) ≈ 70	Triglyceride (100)	Clear colorless liquid
Capric (C10) 25 - 35 Caprylic (C8) ≈ 70 Caproic (C6) ≤ 2	Triglyceride (100)	Clear colorless liquid
Capric (C10) ≥ 98	Triglyceride (100)	White solid paste
Caprylic (C8) ≥ 98	Triglyceride (100)	Clear colorless liquid
Capric (C10) 10-50 Caprylic (C8) 50-90	Monoglyceride (45-75) Diglyceride (20-50) Triglyceride (< 10)	Colorless or slightly yellow liquid or soft mass
Caprylic (C8) ≥ 90	Monoglyceride (45-75) Diglyceride (20-50) Triglyceride (< 10)	Colorless or slightly yellow liquid or soft mass
Oleic (C18:1) ≥ 60 Linoleic (C18:2) ≤ 35	Monoglyceride (55-65) Diglyceride (15-35) Triglyceride (2-10)	Amber liquid or semi-solid
Caprylic (C8) ≥ 90	Monoglyceride (≥ 80) Diglyceride (≤ 20) Triglyceride (≤ 5)	Colorless or slightly yellow solid
Caprylic (C8) ≥ 90	Propylene Glycol Monoesters (≥ 90)	Colorless liquid
Lauric (C12) ≥ 95	Propylene Glycol Monoesters (≥ 90)	Colorless or slightly yellow liquid
Oleic Acid (C18:1) 58-80 Linoleic Acid (C18:2) 15-35		Light amber liquid
Lauric (C12) 40-50		Pale yellow solid
Palmitic (C16) 40-50 Stearic (C18) 48-58 complex mixture of PEG esters and mono and diglycerides		Pale yellow solid
Capric (C10) 30-40 Caprylic (C8) 60-70		Clear colorless liquid



Start Formulating Today

Let us Help!

TRANSDERMAL



Need formulation assistance?

Let our technical team assist you in your formulation needs, email Amanda Coulter at acoulter@abiteccorp.com



Need a sample?

Please visit our website at <http://www.abiteccorp.com/samples>



Need Technical Data?

Visit our client area and download TDS, SDS, brochures & more!
<http://www.abiteccorp.com/client-area>



Need Regulatory Support?

Email our regulatory team @ regulatory@abiteccorp.com



Need to Place an Order?

Our sales service team is ready to assist you! sales@abiteccorp.com

CAPMUL, CAPTEX, and ACCONON are registered trademarks of ABITEC Corporation.

All information and statements given in this brochure are believed to be accurate at the time of publication. However, neither ABITEC Corporation nor any of their affiliates make any representations or warranty with respect thereto, including, but not limited to, any results obtained in the processing of the products by customers or any third party. All information and statements are intended for persons having the required skill and know-how and do not relieve the customer or user from verifying the suitability of information and statements given for a specific purpose prior to use of the products. It is entirely the obligation of the customer or user to comply with applicable laws and regulations, and also with all patent or other intellectual property rights of third parties. ABITEC CORPORATION EXPRESSLY DISCLAIMS ANY REPRESENTATIONS OR WARRANTIES OF ANY KIND, WHETHER EXPRESSED OR IMPLIED, AS TO THE ACCURACY, CURRENCY, COMPLETENESS AND/OR THE MERCHANTABILITY OR FITNESS OF A PARTICULAR PURPOSE OF ANY INFORMATION CONTAINED IN THIS BROCHURE AND/OR PRODUCT DESCRIBED OR PROMOTED IN THIS BROCHURE, INCLUDING WARRANTIES WITH RESPECT TO INFRINGEMENT OF ANY PATENT, COPYRIGHT, OR OTHER RIGHTS OF A THIRD PARTY. We reserve the right to change product specification and its specified properties of the products without prior notice.