

# Empowering biologics delivery

## Experience and History

- GMP manufacturing initiated in 1985
- FDA inspected since 1990
- Supplied the first semi-synthetic phospholipid for an approved drug product in 1990

## Clinical and Commercial Scale Capacities

- cGMP contract manufacturing of proprietary lipid products
- 50g-25kg batches
- Simultaneous multi-batch manufacturing capabilities
- Scale up options to additional Croda sites

## Regulatory Support

- >35 active drug master files for clinical trials and commercial products
- Filings with >7 Regulatory Bodies
- Open DMFs

## Support Services

- Formulations Consultations and Services
- Custom Synthesis of Reference Standards
- Additional Regulatory Services for Avanti's Items

# Discover the Difference

# GMP Catalog

## Semi-Synthetic: Phosphatidylcholine, Phosphatidylethanolamine, Phosphatidylserine, and Phosphatidylglycerol

Lipid	Product No.	CAS	DMF
DMPC	730345	18194-24-6	<input checked="" type="checkbox"/>
DPPC	730355	63-89-8	<input checked="" type="checkbox"/>
DSPC	730365	816-94-4	<input checked="" type="checkbox"/>
DOPC	730375	4235-95-4	<input checked="" type="checkbox"/>
POPC	770557	26853-31-6	<input checked="" type="checkbox"/>
DEPC	730398	51779-95-4	<input checked="" type="checkbox"/>
DPPC (Ultra High Purity)	738555	63-89-8	
DMPC (Ultra High Purity)	738345	18194-24-6	
DOPE	770725	4004-05-1	<input checked="" type="checkbox"/>
DOPS	770035	90693-88-2	
DMPG	730445	200880-40-6	<input checked="" type="checkbox"/>
DPPG	730455	200880-41-7	<input checked="" type="checkbox"/>
DSPG	730465	200880-42-8	<input checked="" type="checkbox"/>

## Synthetic Monophosphoryl Lipid A (MPLA) Adjuvants

Lipid	Product No.	CAS	DMF
PHAD	770030	1246298-63-4	<input checked="" type="checkbox"/>
3D-PHAD	770040	1699735-79-9	<input checked="" type="checkbox"/>
3D(6-acyl)-PHAD	770050	252042-59-4	<input checked="" type="checkbox"/>

## PEG Lipids

Lipid	Product No.	CAS	DMF
DMG-PEG2000	coming soon	1397695-86-1	<input checked="" type="checkbox"/>
DSPE-PEG2000	770120	474922-77-5	<input checked="" type="checkbox"/>
DMPE-PEG2000	730150	474922-82-2	<input checked="" type="checkbox"/>
ALC-0159*	770159	1849616-42-7	<input checked="" type="checkbox"/>

## Miscellaneous

Lipid	Product No.	CAS	DMF
Tricaprylin	730412	538-23-8	<input checked="" type="checkbox"/>
DOTAP	770890	132172-61-3	<input checked="" type="checkbox"/>
Cholesterol (Plant, Parenteral)	730100	57-88-5	Not Applicable (compendial material)
ALC-0315*	CM04017	2036272-55-4	<input checked="" type="checkbox"/>

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