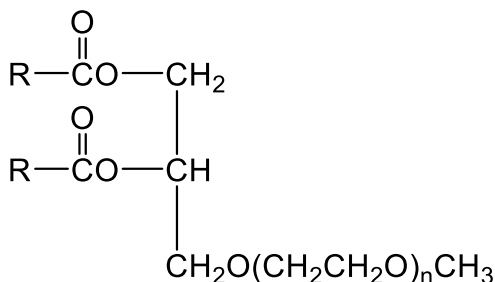


High purity PEG Diacylglycerols for Lipid Nanoparticles

- SUNBRIGHT® Series -



Diacylglycerol-type PEG lipid

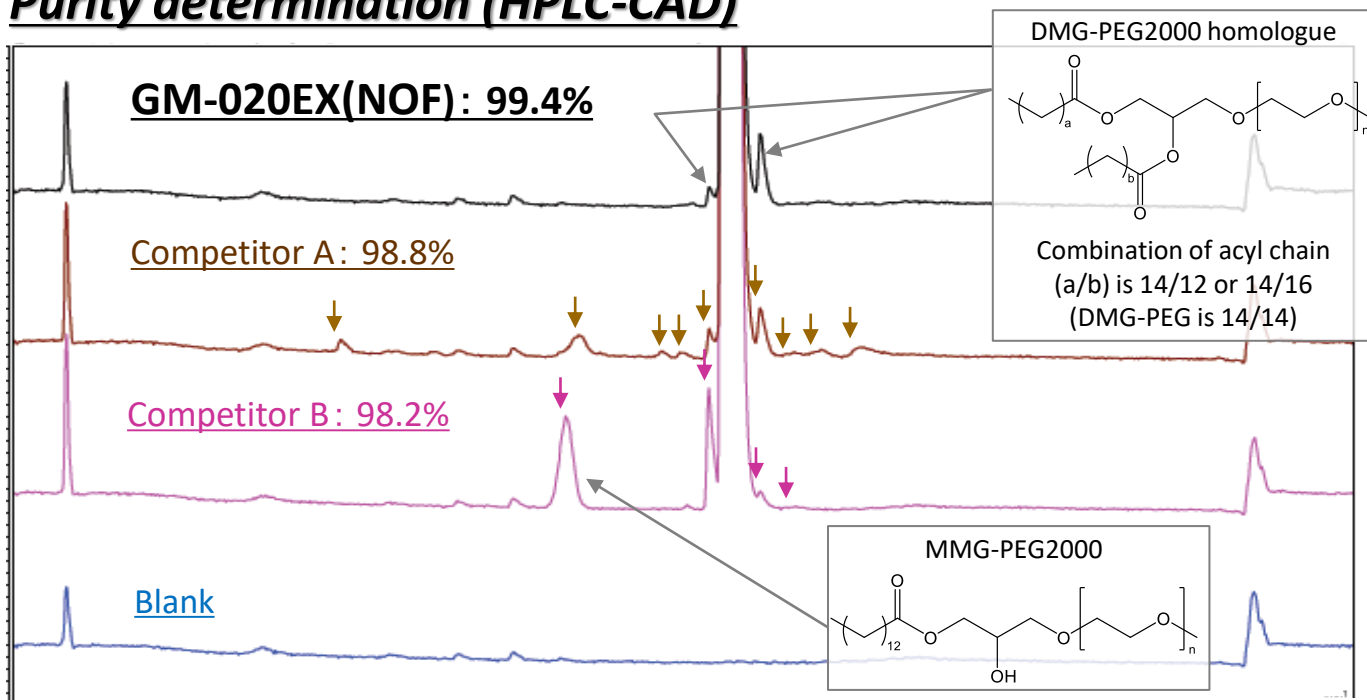
What is unique about our PEG-Lipids?

- ✓ **Highest quality for pharmaceuticals**
- ✓ **Possible to supply GMP grade upon customer's request**
- ✓ **Highly sensitive HPLC-CAD analysis used for purity determination**

NOF has succeeded in developing PEG lipids (diacylglycerol-type PEG lipids with various PEG molecular weights and acyl chain lengths for lipid nanoparticle (LNP) applications) with **higher purity and extremely low levels of impurities** compared to PEG lipids available from other companies.

Leveraging our years of experience as a GMP supplier of PEG and lipid derivatives, we can also supply GMP-grade PEG lipids. These have been adopted for clinical and commercial pharmaceutical applications in several projects.

Purity determination (HPLC-CAD)



The purity of PEG lipids are determined by using HPLC-CAD.

CAD detection is more sensitive and quantitative than ELSD detection, which is generally used for the analysis of compounds with no UV absorption.

Method	NOF	Competitor A	Competitor B
HPLC-CAD(area%)	99.4	98.8	98.2
HPLC-ELSD(area%)	99.9	99.5	99.1

See the product line



Products

Product name		PEG MW	RCOO
DMG-PEG2000	SUNBRIGHT®GM-020EX	2,000	C14:0
DMG-PEG3400*	SUNBRIGHT®GM-034EX	3,400	
DMG-PEG5000*	SUNBRIGHT®GM-050EX	5,000	
DPG-PEG2000	SUNBRIGHT®GP-020EX	2,000	C16:0
DPG-PEG3400*	SUNBRIGHT®GP-034EX	3,400	
DPG-PEG5000*	SUNBRIGHT®GP-050EX	5,000	
DSG-PEG2000	SUNBRIGHT®GS-020EX	2,000	C18:0
DSG-PEG3400*	SUNBRIGHT®GS-034EX	3,400	
DSG-PEG5000*	SUNBRIGHT®GS-050EX	5,000	
DOG-PEG2000*	SUNBRIGHT®GO-020EX	2,000	C18:1
DOG-PEG3400*	SUNBRIGHT®GO-034EX	3,400	
DOG-PEG5000*	SUNBRIGHT®GO-050EX	5,000	

* make-to-order

NOF can offer a variety of customized products for LNP application.

- ✓ PEG lipids (PEG molecular weights, acyl chain lengths)
- ✓ Activated PEG lipids
- ✓ Ionizable lipids



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