

PRODUCT DATA SHEET

Neutral Glycosphingolipid Mixture (qualitative)

Catalog No: 1505

Source: natural, bovine and porcine

Solvent: chloroform/methanol (2:1 by vol.)

Storage: -20°C

TLC System: chloroform/methanol/ DI water
(65:25:4 by Vol.)

<u>Component</u>	<u>Quantity</u>
Cerebrosides	20 mg
Lactosylceramides	7.5 mg
Ceramide trihexosides	7.5 mg
Globosides (Gb4)	15 mg

Concentration

1 mg/ ml chloroform/ methanol

Packaging

1 ml per unit

Application Notes:

This standard contains four neutral glycosphingolipids for the qualitative identification of unknowns. The mixture is prepared from high purity stock material and contains sphingolipids having one, two, three, and four saccharides. Carbohydrate structures on these glycosphingolipids are synthesized by the sequential addition of monosaccharides by glycosyltransferases. Hence, globoside is derived from ceramide trihexoside which is derived from lactosylceramide which is derived from cerebroside. Glycosphingolipids are involved in many neuronal and degenerative diseases and are therefore being closely investigated in many research areas. This Matreya qualitative standard is intended for the use in verifying the identity of unknown samples and is not designed for the quantitative analysis.

Selected References:

1. A. Cremesti and A. Fischl "Current methods for the identification and quantitation of ceramides: An overview" *Lipids*, Vol. 35:9 pp. 937-945, 2000
2. J. Bielawski et al. "Comprehensive Quantitative Analysis of Bioactive Sphingolipids by High-Performance Liquid Chromatography–Tandem Mass Spectrometry" *Lipidomics*, Vol. 579 pp. 443-467, 2010

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