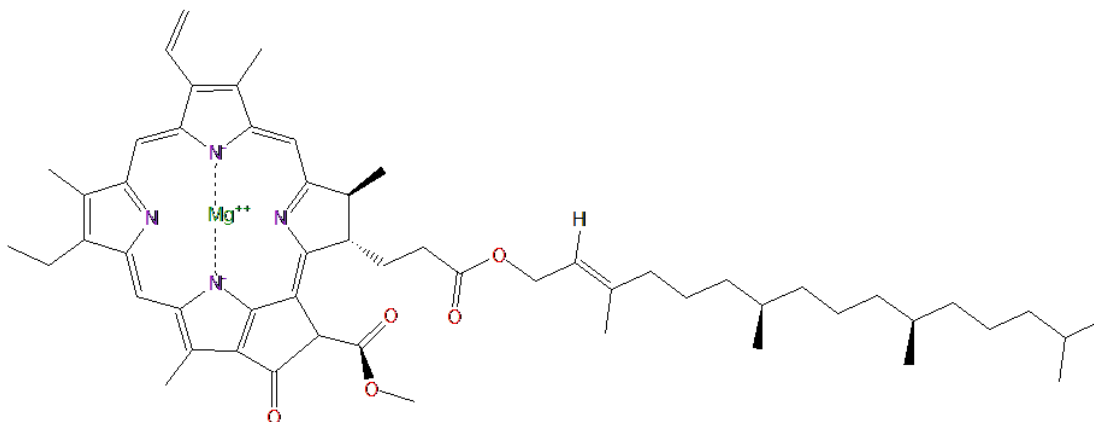


Certificate of Analysis

Product Information





PRODUCT	Chlorophyll A
BATCH #	051-123-501
ASSAY METHOD	HPLC-UV, MS, 1HNMR, 13CNMR, Residual Water, Residual Solvents, Magnesium Content (ICPMS)
REPORT DATE	12/9/2024
CHEMICAL NAME	magnesium;methyl (3R,21S,22S)-16-ethenyl-11-ethyl-12,17,21,26-tetramethyl-4-oxo-22-[3-oxo-3-[(E,7R,11R)-3,7,11,15-tetramethylhexadec-2-enoxy]propyl]-23,25-diaza-7,24-diazanidahexacyclo[18.2.1.15,8.110,13.115,18.02,6]hexacos-1,5,8(26),9,11,13(25),14,16,18,20(23)-decaene-3-carboxylate
SMILES STRUCTURE	<chem>CCC1=C(C2=NC1=CC3=C(C4=C([N-]3)C(=C5[C@H])([C@@H])(C(=N5)C=C6C(=C(C(=C2)[N-]6)C=C)C)CCC(=O)OC/C=C(\C)/CCC[C@H](C)CCC[C@H](C)CCCC(C)C)[C@H](C4=O)C(=O)OC)C.[Mg+2]</chem>
OTHER NAMES	NA
CHEMICAL FORMULA	C ₅₅ H ₇₂ MgN ₄ O ₅
MOLECULAR WEIGHT	893.5 g/mol
CAS REGISTRY #	479-61-8
STORAGE	<-18 °C; in dark, Preferred in vacuo or under Nitrogen
EXPIRATION DATE	12/9/2027
NOTES	

Analytical Data

TEST	METHOD	SPECIFICATION	RESULT
HPLC-UV	432 nm	>95%	98.5%
MS	ESI Positive	892.5	892.3
¹ H-NMR		Conforms	Conforms
¹³ C-NMR		Conforms	Conforms
Ion Analysis (ICP-MS)	Magnesium		2.13%
Residual Solvents (HS-GC-FID)			0.26%
Residual Water (Karl Fischer)			0.86%
Appearance	Dark green powder		

The producer certifies that this reference material meets the specifications stated in this certificate until the expiration date, provided it is stored unopened at the recommended conditions. All analytical data is prepared and stored following GLP guidelines.

CERTIFIED BY	CERTIFIER TITLE	CERTIFIED ON	SIGNATURE
Vitold Glinski	President	12/9/2024	
REVIEWED BY	REVIEWER TITLE	REVIEWED ON	SIGNATURE
Robert Gallucci	Scientist	12/9/2024	

Intended Use

This reference material is intended for laboratory use in analytical applications and as a quality control standard.

Safety

Proper precautions should be observed while handling, as defined in the Materials Safety Data Sheet (MSDS).

Storage

The product should be stored in the original packaging, sealed, and in the conditions dedicated in this certificate