Certificate of Analysis - 225327-1

RED B.V. Einsteinstraat 37 3316 GG Dordrecht (Netherlands)



SSL Code: RED225327-1

Sample Name: M20244003 Batch Number: BA001392

Method: Quantitative ³¹P-NMR spectroscopy according to SAA-MET002-06

Content of Phospholipids (organic layer):

TPP	Integral	MW [g/Mol]	Initial weight [mg]	LOQ [Mol%]	Matrix:
Internal Standard	20.51	326.29	15.00		LECITHIN
Test item			305.12	0.09	
Phospholipid	Integ <u>•</u>	MW [g/Mol]	Content [mg]	Mol-%	Weight-%
PC	28.44	770.0	48.99	35.78	16.05
1-LPC	0.07	515.0	0.09	0.09	0.03
2-LPC	0.74	515.0	0.85	0.93	0.28
PI	13.70	835.0	25.58	17.23	8.38
PS-Na	0.82	797.2	1.46	1.03	0.48
PE	27.07	725.0	43.90	34.05	14.39
LPE	0.49	470.0	0.52	0.62	0.17
APE	1.27	990.0	2.81	1.60	0.92
PG	1.10	758.0	1.87	1.38	0.61
DPG	0.75	682.5	1.15	0.94	0.38
PA	4.67	685.0	7.16	5.87	2.35
LPA	0.16	430.0	0.15	0.20	0.05
Other	0.21	770.0	0.36	0.26	0.12
Sum	79.49			100.00	44.21
Phosphorus					1.81

Comments: -Analysed phospholipids include PC, 1-LPC, 2-LPC, PI, LPI, PS-Na, LPS, SPH, PE, LPE, APE, PG, DPG, PA and LPA.

- -Integrals of Phospholipid signals, which are not evaluable or belong to not listed Phospholipids, are recorded as "other".
- -Phospholipids that are not detected/have a value of "0" are filtered out and do not appear in the individual list.

Electronic Signatures:

Prepared by:	The results only apply for the sample material analysed by Spectral Service AG. The final evaluation of the results is in the competence and responsibility of the customer.

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⁻Due to signal overlapping of PI and 1-LPC the content of 1-LPC was calculated as 10% from 2-LPC

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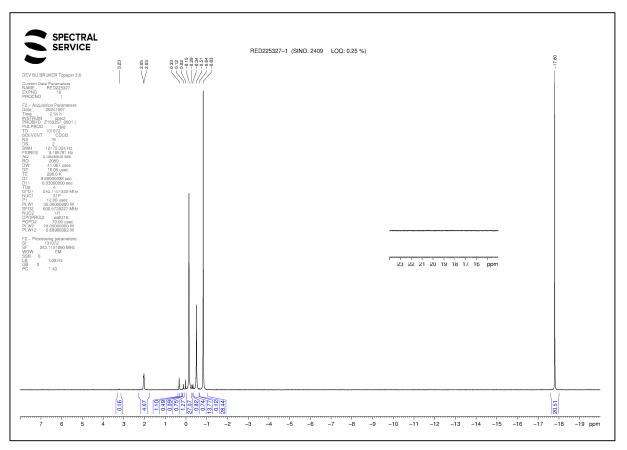


Fig. 1 ³¹P-NMR spectrum of test item, Quantification (A)