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³¹P-NMR of Fluidized Soybean Lecithin

Sample: Fluidized Soybean Lecithin, Lot LEC-AU
NMR Analysis Date: 05/01/13
ICP-MS Analysis Date: 04/29/13
Reference: Avanti 225246

Sample was received on 04/17/2013 and stored at ambient temperature until analysis. Quantitative ³¹P-NMR analysis was performed on a solution prepared according to SOP 200157. ICP-MS analysis was performed according to SOP 200169.

Table 1: Phospholipids of Fluidized Soybean Lecithin, Lot LEC-AU, in weight percent by ³¹P NMR.

wt (g) =	0.2613					
vol (mL) =	25					
mg/mL =	10.452					
	PL	ppm	mM	MW		wt/wt%
	PA	2.48	0.6444	685		4.22
	PO4	1.77	0.0647	98		0.06
	PG	0.22	0.1294	758		0.94
	Lyso PE	0.13	0.2497	470		1.12
	PE	-0.31	2.2473	725		15.59
	Lyso PC	-0.41	0.0652	515		0.32
	PI	-0.75	1.2009	835		9.59
	PC	-0.87	2.5371	770		18.69
				Total		50.54

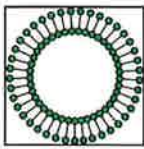





Table 2: Heavy Metals Analysis of Fluidized Soybean Lecithin, Lot LEC-AU, in parts per million (ppm).

Element	Result (ppm)
Bismuth	0.002
Lead	0.000
Mercury	0.000
Molybdenum	0.164
Antimony	0.000
Copper	0.185
Silver	0.002
Tin	0.000
Cadmium	0.000
Total Sum of Metals	0.352


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