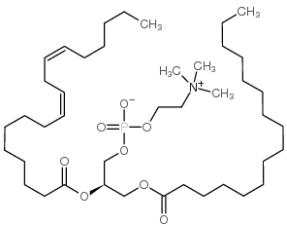


CERTIFICATE OF ANALYSIS

NO: DYC051508113

Product name	Phosphatidyl Choline
CAS Number	8002-43-5
Molecule Structure	
Molecule Formula	C42H80NO8P
Batch No.	20140807
Manuf.Date	2014-08-07
Testing Date:	2015-08-26

Items	Standard	Result
Appearance	Yellow to brown semi-solid or lump	Conform
Identification	Should be a positive reaction	Positive
Acid value	30max	21
Iodine value	75min	89
Peroxide value	5min	4
Acetone insoluble	90%min	98.3%
Hexane insoluble	0.3%max	0.01%
Water	1.5%max	0.5%
Heavy metals	20ppm max	Conform
Arsenic	2ppm max	Conform
Residual solvents	Ethanol n. m. t. 0.5%	0.0047%
	Acetone n. m. t. 0.5%	Not detected
Assay	On dry basis	
P	2.7%min	4.0%
N	1.5-2.0%	1.6%



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Phosphatidylcholine	45.0%min	51.8%
Phosphatidylethanolamine	30.0%max	14.1%
Phosphatidylinositol	5.0%max	2.2%
Conclusion	Conform to CP2010 standard	

QUALITY CONTROL:

Hangzhou Dingyan Chem Co., Ltd.

Quality Control ... Buddy Chan

Signature(s)

CHECK: 姚仙娟

INSPECTOR: 刘清风