



We Bring Natural Ingredient From Nature

Shaanxi Guanjie Technology Co., Ltd.

Certificate of Analysis

Product Name	PC(L- α -Phosphatidylcholine)	Manufacture Date	Feb. 10th, 2022
Batch No.	PC220210	Certificate Date	Feb. 12th, 2022
Batch Quantity	3800kgs	Expiration Date	Feb. 09th, 2023
Storage Condition	Store in cool & dry place, Keep away from strong light and heat.		

Item	Specification	Result	Method
Basic Product Information			
Country of Origin	China	Conform	/
Marker Compounds			
L- α -Phosphatidylcholine	$\geq 20.0\%$	21.50%	ELSD
Organoleptic Data			
Appearance	Fine Powder	Conform	GJ-QCS-1008
Color	Light Yellow or Brown Powder	Conform	GB/T 5492-2008
Odor	Characteristic	Conform	GB/T 5492-2008
Taste	Characteristic	Conform	GB/T 5492-2008
Physical Characteristics			
Solubility	Soluble in chloroform, n-hexane, diethyl ether, Petroleum ether; Insoluble in water, ethanol,	Complies	Visual
Peroxide value	<10 meq/kg	Complies	CP2010
Particle Size (80 mesh)	>98.0% pass 80mesh	Conform	GB/T 5507-2008
Loss on drying	<5.0%	1.05%	GB/T 14769-1993
Solvent Residue	Eur Pharm	Conform	GJ-QCS-1007
Heavy Metals			
Total Heavy Metals	<10 ppm	Conform	USP <231>, method II
As	<1.0 ppm	Conform	AOAC 986.15, 18th
Pb	<1.0 ppm	Conform	AOAC 986.15, 18th
Cd	<0.5ppm	Conform	AOAC 986.15, 18th
Hg	<0.5 ppm	Conform	AOAC 971.21, 18th
Pesticide Residue			
666	<0.2ppm	Conform	GB/T5009.19-1996
DDT	<0.2ppm	Conform	GB/T5009.19-1996
Microbiology(non-irradiated and non-ETO)			
Total Plate Count	<10,000cfu/g	Conforms	AOAC 990.12, 18th
Yeast & Mold	< 1000cfu/g	Conforms	FDA (BAM) Chapter 18,
E. Coli	Negative	Negative	AOAC 997.11, 18th
Salmonella	Negative	Negative	FDA (BAM) Chapter 5, 8th

Conclusion: Complies with specification

Tested by: Liu gang

Date: 2022.02.12

Approved by: Susan Sun, Ph.D

Date: 2022.02.12



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