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Product name :DL-Choline Bitartrate Pharma Grade
CAS :132215-92-0

Items	USP30 Standard	Testing Result
Description	White crystalline powder	White crystalline powder
Identification A,B,C	Qualified	Qualified
Content % min.	99 ~ 100.5	99.32
Arsenic (As) ppm max.	2	<0.01
Total Heavy Metals ppm max.	10	<5
Lead (Pb) ppm max.	3	<0.01
Cadmium (Cd) ppm max.	1	<0.01
Mercury (Hg) ppm max.	0.1	<0.01
Silicon dioxide content %	0.6 ~ 1.2	1.0
Residue on ignition %	0.1	0.01
Water % max.	0.5	0.17
PH	3.0 ~ 4.0	3.4
Total amine max.	0.001	PASS
Choline content % min.	40.90 ~ 41.72	41.27
1,4-dioxane % max.	Negative	Negative
E. Coli	Negative	Negative
Salmonella	Negative	Negative
Staphylococcus Aureus	Negative	Negative
Coliforms	<300cfu/g	Passes test
Yeast & Mould	<100cfu/g	<100cfu/g
Total plate count	≤1,000cfu/g	≤1000cfu/g
Particle Size	100% Through 20Mesh	Passes test
Conclusion: Qualified, Conform to FCCV & USP30		
QC Manager: Huang Yahong Analyst: Xu Zhixia		

