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Specification Sheet

Product Name	VITAMIN B4 (CHOLINE BITARTRATE)	
ITEM	**SPECIFICATION**	**TEST METHOD**
Appearance	White crystalline powder	Visual
Identification	Positive Reaction	USP
Assay (d.s)	99.0. - 100.5%	USP <541>
Loss on Drying	NMT 0.5%	USP <731>
PH (10% solution)	3.0 – 4.0	USP <791>
Specific Rotation	$+17.5^0$ - $+18.5^0$	USP <781>
Residue on Ignition	NMT 0.1%	USP <281>
Heavy Metals	NMT 10 ppm	USP <231>
Arsenic	NMT 0.5 ppm	USP <730>
Lead	NMT 0.3 ppm	USP <730>
Cadmium	NMT 0.2 ppm	USP <730>
Mercury	NMT 0.1 ppm	USP <730>
Residual Solvent	Meets the requirements	USP <467>
1,4 Dioxane	NMT 10 ppm	USP
Total Amines	NMT 10 ppm	USP
Chromatographic Purity	Conform	USP
Total Plate Count	NMT 1000 CFU/g	USP <61>
Yeast and Mold	NMT 100 CFU/g	USP <61>
E. coli	Negative	USP <62>
Salmonella	Negative	USP <62>
Staphylococcus	Negative	USP <62>
Bulk Density	0.6 – 0.8 g/ml	USP <616>
Tapped Density	0.7 – 0.9 g/ml	
Particle Size	Thru 20 mesh	USP <786
	Thru 40 mesh	
	Thru 60 mesh	
Conclusion	The test results correspond to USP40	
Packing	25kg/Fiber Drum with two PE liners inside	
Storage	Preserve in well-closed container in a cool, dry and well	

Note: The above information is based on the specifiction sheet received from the manufacturer of this product and not intended as a substitute for strict quality control analysis by the purchaser of this product.

Reviewed by : _____

Abdullah Malik (QA)