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Certificate of Analysis

Product Name	ZINC OROTATE 99%		
Batch No	TRF-20181111		
Country of Origin	USA		
Shelf Life	3 year(s)		
Manufacturing Date	11-11-2018		
Expiry Date	11-10-2021		
ANALYSIS	**SPECIFICATION**	**RESULTS**	**METHOD**
ACTIVE			
Zinc	99%	99.68%	ICP-MS
HEAVY METALS			
Arsenic (As)	NMT 1.00 ppm	< 0.02 ppm	ICP-MS
Cadmium (Cd)	NMT 1.00 ppm	0.14 ppm	ICP-MS
Lead (Pb)	NMT 3.00 ppm	0.49 ppm	ICP-MS
Mercury (Hg)	NMT 0.10 ppm	< 0.2 ppm	ICP-MS
MICRO			
Total Plate Count	NMT 3000 CFU/g	< 90 CFU/g	USP-2021
Mold	NMT 300 CFU/g	< 100 CFU/g	USP-2021
Yeast	NMT 300 CFU/g	< 120 CFU/g	USP-2021
Coliform	NMT 100 CFU/g	< 8 CFU/g	AOAC 991.14
E. coli	NMT 10 CFU/g	< 10 CFU/g	AOAC 991.14
Enterobacteriaceae	NMT 10 CFU/g	< 10 CFU/g	AOAC 2003.01
Staph	NMT 10 CFU/g	< 10 CFU/g	AOAC 2003.07
PHYSICAL			
Color	White	White	
Mesh 20	Record	100.00%	Cilas
Mesh 60	Record	100.00%	Cilas
Mesh 140	Record	87.90%	Cilas
Tap Density	0.60 – 1.00 g/ml	0.86 g/ml	AutoTap
Moisture	NMT 6.00%	1.21%	Electrobalance

Note: The above information based on the certificate of analysis 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 : _____
Tahir Habib (M.Pharm)