Product Name Zinc Picolinate

Product Code 2605

Batch No. C210287

TR No. KL21F0176

Date of Manufacture February 2021

Date of Expiry January 2026

Category Intended for Nutraceutical application

CAS No 17949-65-4
Preparation type Synthetic
Solvent used for DM Water

extraction

Molecular Formula C12H8N2O4Zn

Molecular Weight 309.38

Chemical Name Zinc bis (2-pyridine carboxylato-N1, O2)-(T-4)

Starting Material Picolinic acid

Synonyms Picolinic acid, zinc chelate

Excipient used None

Parameters Result Limit Reference

PHYSICAL

Description Complies White crystalline powder Visual

Identification Complies a) To comply by IR a) USP <197 K> Spectrum b) To comply b)SLL/STP-P-005

by HPLC

Solubility Complies Freely soluble in dilute USP

acid (10%w/w

hydrochloric acid), very slightly soluble in water

Moisture content by KF 5.72 % w/w Not more than 8.0% w/w USP <921>

method

Tapped bulk density 0.90 g/ml Between 0.60g/ml and EP 2.9.34 Method - I

1.20g/ml

Loose bulk density 0.63 g/ml Between 0.35g/ml and EP 2.9.34 Method - I

0.65g/ml

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Parameters Sieve Test (Passes through)	Result	Limit	Reference USP <786>	
- 40 mesh	100.00 % w/w	Not less than 100% w/w		
- 80 mesh	97.65 % w/w	Not less than 95% w/w		
CHEMICAL				
Assay				
-Content of Zinc by ICP- OES	21.38 % w/w	Not less than 20.0% w/w and not more than 23.0% w/w on anhydrous basis	SLL/STP-Z-002	
-Content of Picolinic acid by HPLC	79.13 % w/w	Not less than 75.0% w/w and not more than 80.0% w/w on anhydrous basis	SLL/STP-P-005	
OTHERS				
Lead	<0.2 ppm (µg/g)	Not more than 3ppm (µg/g)	USP <2232>	
Arsenic	<0.2 ppm (μg/g)	Not more than 1ppm (µg/g)	USP <2232>	
Cadmium	0.23 ppm (μg/g)	Not more than 1ppm (µg/g)	USP <2232>	
Mercury	<0.02 ppm (μg/g)	Not more than 0.1ppm (µg/g)	USP <2232>	
Residual solvents	Not applicable	Not applicable		
MICROBIOLOGICAL PROFILE				
Total aerobic microbial count	<100 cfu/g	Not more than 5000cfu/g	EP 2.6.12	

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Parameters	Result	Limit	Reference
Total yeasts and molds count	<10 cfu/g	Not more than 100cfu/g	EP 2.6.12
Escherichia coli	Complies	Negative/10g	EP 2.6.13
Salmonella	Complies	Negative/10g	EP 2.6.13
Staphylococcus aureus	Complies	Negative/10g	EP 2.6.13
Pseudomonas aeruginosa	Complies	Negative/10g	EP 2.6.13
Bile tolerant Gram negative bacteria	Complies	Negative/10g	EP 2.6.13
Coliforms	<10 cfu/g	Less than 10	

ADDITIONAL INFORMATION

Sanitising treatment Non-irradiated and not treated with ETO Halal certified

Certification Status

(Kosher/Halal)

Genetic Modification

Status

GMO free

BSE/TSE status BSE / TSE free

Country of Origin India

Storage condition Store at room temperature

Manufactured By Sami-Sabinsa Group Limited - Peenya

19/1, 19/2, I Main II Phase, Peenya Industrial Area, Bangalore. 560 058,

Karnataka, India

Manufactured At Sami-Sabinsa Group Limited - Kunigal

Plot No. 30-35, KIADB Industrial Area, Kunigal, Tumkur District - 572130

CERTIFICATE OF ANALYSIS

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The above certificate of analysis is based *Specifications Issue No: 3 Dated: August 09, 2018* on

**In-House developed and validated methods NAP:Not Applicable NAV:Not Available