

ASES CHEM

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CERTIFICATE OF ANALYSIS

Product Name	Zinc Pyrithione 50% (Anti Dandruff Liquid)	Product Code	Z032
Chemical Name	1-Hydroxypyridine-2-thione Zinc salt (Suspension)	CAS No.	13463-41-7
Batch No.	826	Mfg. Date	Aug 2026
Quantity	_____	Expiry Date	Aug 2029

Sr.	Test Parameter	Specification	Result
01	Appearance	Off white aqueous dispersion, free from signs of impurities	Off white aqueous dispersion, free from signs of impurities
02	Whiteness Index (Konica Minolta Chromameter CR-400)	Not less than 74.0	Not less than 74.0
03	Identification by IR	Conforms with the standard spectrum of Zinc Pyrithione	Conforms with the standard spectrum of Zinc Pyrithione
04	Odor	Odorless	Odorless
05	Assay (Titrimetric Method)	48% - 50% w/w	48% - 50% w/w
06	Zinc Content (Titrimetric Method)	9.3 - 11.3% w/w	9.3 - 11.3% w/w
07	pH (5% slurry in distilled water, adjusted to pH 7)	6.5 - 9.0	6.5 - 9.0
08	Particle Size Distribution (Malvern Mastersizer 2000 with Hydro 2000S)	D90% particles less than 1 micron	D90% particles less than 1 micron
09	Iron (by AAS/ICP-OES)	NMT 10.0 ppm	NMT 10.0 ppm
10a	Arsenic (Heavy Metal, AAS/ICP-OES)	NMT 3.0 ppm	NMT 3.0 ppm
10b	Lead (Heavy Metal, AAS/ICP-OES)	NMT 2.5 ppm	NMT 2.5 ppm
10c	Chromium (Heavy Metal, AAS/ICP-OES)	NMT 3.0 ppm	NMT 3.0 ppm

Sr.	Test Parameter	Specification	Result
10d	Cobalt (Heavy Metal, AAS/ICP-OES)	NMT 3.0 ppm	NMT 3.0 ppm
10e	Nickel (Heavy Metal, AAS/ICP-OES)	NMT 5.0 ppm	NMT 5.0 ppm
10f	Mercury (Heavy Metal, AAS/ICP-OES)	NMT 1.0 ppm	NMT 1.0 ppm
	Total Heavy Metals	NMT 20 ppm	NMT 20 ppm
11a	Total Plate Count/g (incl. yeast & mold)	≤ 100 CFU/1g	≤ 100 CFU/1g
11b	E. coli / g	Absent in 1g	Absent in 1g
11c	S. aureus / g	Absent in 1g	Absent in 1g
11d	Pseudomonas / g	Absent in 1g	Absent in 1g
11e	Enterobacteria / g	Absent in 1g	Absent in 1g

Note: This product is a suspension - stir & mix well before sampling to obtain a uniform sample for analysis. Store in a cool, dry place, protected from sunlight. Stable for 3 years from date of manufacture when stored as recommended.

Testing performed by ASES Chem's quality control against the above specification, corroborating the manufacturer's (Kumar Organic Products Ltd.) Finished Product Specification for this material.

Tested by

Name: _____

Designation: QC Officer

Date: _____

Checked by

Name: _____

Designation: QA Executive

Date: _____

Approved by

Name: _____

Designation: QA Head

Date: _____

This Certificate of Analysis is issued by ASES Chem based on quality control testing conducted against the manufacturer's (Kumar Organic Products Ltd.) established Finished Product Specification for this material. For handling and safety information, refer to the corresponding Safety Data Sheet (SDS).