

Certificate of Analysis

Name of Product : Dithranol (Cas No: 1143-38-0) (Only for R&D)
 Batch No. : NDS202404010 Quantity : 1.00kgs
 M. Date : April, 2024 Exp. Date : March, 2028

No.	Test	Specification	Results
1.	Description	Yellow or brownish-yellow, crystalline powder	Complies
2.	Solubility	Practically insoluble in water, soluble in methylene chloride, sparingly soluble in acetone, slightly soluble in ethanol(96%). It dissolves in dilute solutions of alkali-hydroxides	Complies
3.	Identification	a) Melting Point 178°C-182°C b) (IR) Comparison: Dithranol CRS c) The principal spot in the chromatogram obtained in the test solution is similar in position, colour and size to the principal spot in the chromatogram obtained with reference solution on(a) d) Examining in ultraviolet light at 365nm,the solution shows a blue fluorescence	Complies
4.	Loss on Drying (w/w)	NMT 0.5%	0.232%
5.	Sulfated Ash	NMT 0.1%	0.031%
6.	Chlorides	NMT 100ppm	Complies
7.	Related Substances		
	Test-A: Impurity A(anthrone)	NMT 1.0%	0.0020%
	Impurity B(dantron)	NMT 1.0%	0.7384%
	Impurity C(dithranol dimer)	NMT 1.0%	Not detected
	Test-B: Impurity D (1-hydroxy-9-anthron)	NMT 2.5%	0.0437%
	Total (Test A+Test B)	NMT 3.0%	0.7841%
8.	Assay (on dried basis)	98.5-101.0%	100.13%

Conclusion: Complies with EP specifications