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## **-CERTIFICATE OF ANALYSIS-**

Product: (+/-) Dithiothreitol molecular biology grade  
Code No: NB-42-01687  
CAS No: 3483-12-3  
Batch No: AS510959  
Expiry date: 28/01/2026

Test	Specification	Result
Batch		VSP233001
Description	A white free flowing powder, hygroscopic	Complies
Solubility	Freely soluble in water, methanol and methylene chloride	Complies
Clarity a) in water b) in sodium acetate	5% (w/v) solution in water is clear and colorless Clear and colourless	Complies Complies
Identification by a) IR Spectrum b) TLC	IR Spectrum of sample exhibits maxima at the same wavelengths as that of a similar preparation of reference compound. R <sub>f</sub> value of the sample is comparable with that of the standard.	Complies Complies
Melting Range	42 to 44 °C	42 to 43 °C
Related Substance a) TLC b) UV Spectroscopy	Single individual impurity NMT 0.5% Total impurities not more than 2.0% Content of Oxidized DTT (Dihydroxydithiane) NMT 0.4%	Complies Complies 0.259%
UV Absorbance a) At 500nm b) At 280nm	Absorbance of 0.1M Solution at 500nm NMT 0.050 Absorbance of 0.1M Solution at 280nm NMT 0.100	0.002 0.085
pH/Acidity	pH of 0.1M solution in water is between 4.0 and 6.0	5.25
Assay (By Iodimetry)	NLT 99%	99.50%
Loss on Drying	< 0.5%	0.14%
Purity by GC	> 98%	99.06%
Heavy Metals as Lead (Pb)	NMT 1 mg per kg	Not Detected
Sulphate	NMT 50 mg per kg	Not Detected

Signed: --Digital document, valid without signature--

Date: 03<sup>rd</sup> October 2023