

## CERTIFICATE OF ANALYSIS

<b>Product:</b>	<b>(2R,3R)-rel-1,4-dimercapto-2,3-Butanediol</b>
<b>Catalog Number:</b>	<b>3483-12-3</b>
<b>Formula:</b>	<b>C<sub>4</sub>H<sub>10</sub>O<sub>2</sub>S<sub>2</sub></b>
<b>Formula weight:</b>	<b>154.25</b>
<b>Lot No.:</b>	<b>241229</b>
<b>Expiry Date:</b>	<b>12/2028</b>
<b>Storage:</b>	<b>2-8°C</b>

TESTS	SPECIFICATIONS	Result
<b>Description:</b>	A white free flowing powder, hygroscopic	A white free flowing powder, hygroscopic
<b>Solubility:</b>	Freely Soluble in Water, Methanol and MethyleneChloride	Complies
<b>Clarity</b> <b>a) In water</b> <b>b) In sodium acetate:</b>	a) 5%(w/v) solution in water is clear and colourless b) 1 molar DTT solution in 0.01M sodium acetate at pH5.2 should be clear and colourless	Complies
<b>Identification by IR spectrum:</b>	IR Spectrum of sample exhibits maxima at the same wavelengths as that of a similar preparaton of reference compound.	Complies
<b>Melting Range:</b>	42 to 44°C	43.00°C
<b>Related Substance (a) UV Spectroscopy</b>	Content of Oxidised DTT (Dihydroxydithiane) NMT 0.4%	0.124%
<b>UV Absorbance</b> <b>a) At 500nm</b> <b>b) At 280nm</b>	Absorbance of 0.1M solution at 500nm NMT 0.035 Absorbance of 0.1M solution at 280nm NMT 0.100	0.000 0.041
<b>pH /Acidity</b>	0.1 M.solution in water is between 4.0 and 6.0	5.39
<b>Assay(by Iodimetry)</b>	NLT 99.0 %	99.67%
<b>Loss on drying</b>	<0.5%	0.15%

DXX  
Quality Inspector