

## CERTIFICATE OF ANALYSIS

Product Description	Batch	Re-Test Date	Customer Reference
D-PANTHENOL 75	10800	12/2027	

PARAMETERS	SPECIFICATION	RESULTS
<b>Colour and Appearance:</b>	Clear Colourless liquid	Comparable to standard
<b>Odour:</b>	Neutral odour	Comparable to standard
<b>D-Panthenol Content</b>	> 75.0%	76.5
<b>Water Content</b>	< 25.0%	22.2
<b>Aminopropanol</b>	<1.0%	Conforms
<b>pH Value (5% aqueous solution):</b>	5.5 - 7.0	6.5
<b>Specific Optical rotation:</b>	+ 29° to +32°	+30.6
<b>Refractive Index @20°C</b>	1.466 - 1.475	1.466
<b>Density @20°C</b>	1.2g/cm <sup>3</sup>	Conforms
<b>Free Amines as Aminopropanol</b>	0.0 to 1.0 %	0.8
<b>Heavy Metals Colourometric</b>	< 10ppm	Conforms

### DECLARATION

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