

CERTIFICATE OF ANALYSIS

| Product Description | Batch | Re-Test Date | Customer Reference |
|---------------------|-------|--------------|--------------------|
| D-PANTHENOL 75 | 10203 | 12/2025 | |

| PARAMETERS | SPECIFICATION | RESULTS |
|---|-------------------------|------------------------|
| Colour and Appearance: | Clear Colourless liquid | Comparable to standard |
| Odour: | Neutral odour | Comparable to standard |
| D-Panthenol Content | > 75% | 76.8 |
| pH Value (10% aqueous solution): | 9.5 - 10.5 | 10.1 |
| Specific Optical rotation: | + 29° to +32° | 30.5 |
| Density @20°C | 1.2g/cm ³ | Conforms |
| Free Amines as Aminopropanol | 0.0 to 1.0 % | 0.8 |
| Heavy Metals Colourometric | < 10ppm | Conforms |

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