



Certificate of Analysis

Customer: The Soap Kitchen
Product: D-Panthenol 75 W
Batch Number: 171030C16
Reference: Order: 18.01.2018/Bill
Part No: N/A
Quantity: 1 x 25kg nett wt boxes

| Test | Analysis | Specification |
|---|-------------------|--------------------------------------|
| Appearance | Conforms | Colourless, viscous and clear liquid |
| Assay, % | 76.7 | 75.0 - 78.5 |
| Identification (IR Spectrum) | Positive reaction | Positive reaction |
| Specific Rotation (on dried basis), degrees | 30.00 | +29.5 - +32.0 |
| Aminopropanol content, % | Conforms | 1.0 maximum |
| Residue on Ignition, % | Conforms | 0.1 maximum |
| Refractive Index | Conforms | 1.466 - 1.475 |
| Heavy Metals, ppm | Conforms | 10 maximum |
| Organic Volatile Impurities | Conforms | USP Requirements |
| pH | 7.1 | 5.5 - 7.5 |

Date of Manufacture: 30/10/2017

Recommended Date of Re-Test: 29/10/2019

Issue date: 12/02/2018

Authorised signatory: This is an electronically generated document and is valid without a signature

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