

# Certificate of Analysis

## GRACEFRUIT LTD

Date: 02/06/2017

209 Glasgow Road  
Longcroft  
Bonnybridge

FK4 1QQ  
UNITED KINGDOM

Batch Number: 20161003

Product Name: panthenol powder

o:

| Analysis Parameters               | Type | Limit 1  | Limit 2 | Result     |
|-----------------------------------|------|----------|---------|------------|
| Assay (%)                         | R    | 99.0     | 102     | 99.93      |
| Melting Point (C)                 | R    | 64.5     | 68.5    | 65.6       |
| Residue on Ignition (%)           | <    | 0.1      |         | 0.02       |
| Heavy Metals (< 20 ppm)           | =    | conforms |         | conforms   |
| Aminopropanol (%)                 | <    | 0.1      |         | 0.023      |
| Specific Rotation (-0.05 to 0.05) | =    | conforms |         | conforms   |
| Date of Manufacture               | D    |          |         | 13/10/2016 |
| Recommended retest date           | D    |          |         | 12/10/2018 |

**We confirm that this material conforms to the agreed specification. This certificate is computer generated and therefore does not require a signature.**

### Key

>: Greater than or equal to  
<: Less than or equal to  
=: Equals  
R: Range  
D: Date  
T: Text