

# Certificate of Analysis

## GRACEFRUIT LTD

**Date:** 04/01/2017  
**Batch Number:** 20161001  
**Product Name:** Panthenol Powder

209 Glasgow Road  
Longcroft  
Bonnybridge  
FK4 1QQ  
UNITED KINGDOM

Analysis Parameters	Type	Limit 1	Limit 2	Result
Assay (%)	R	99.0	102	99.89
Melting Point (C)	R	64.5	68.5	65.1
Residue on Ignition (%)	<	0.1		0.018
Heavy Metals (20 ppm)	=	conforms		conforms
Aminopropanol (%)	<	0.1		0.023
Specific Rotation (-0.05 to 0.05)	=	conforms		conforms
Date of Manufacture	D			07/10/2016
Recommended retest date	D			06/10/2018

**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