

Certificate of Analysis

A quality management system registered to the international standard ISO 9001 was used to manufacture and test this material.

Certificate prepared at

Gracefruit Limited
146 Glasgow Road
Stirlingshire
FK4 1QL

Customer details

Customer Ref.
Inspection Lot 040000652549
C of A Printed. 20.01.2016
Croda Order No.
Croda Del. No.
Quantity. 0.000

Batch Details

Product Name:	POLAWAX NF-PA-(RB)	Date of test:	13.10.2015
Product Code:	EM03398/0025/B28	Date of manufacture:	11.10.2015
Batch No:	0001021466	Retest date:	01.04.2017

Specification: AMENDED 28-AUG-2015

Quality Control Results

Analytical Test Method No.	Characteristic	Specification Limit		Value	Unit	Status
		Lower	Upper			
	Addendum 00	PASS OR FAIL		Pass	-	P
	REVISION NUMBER	4.0		Pass	-	P
	MATERIAL CONFORMS TO MONOGRAPH NAME	USP/NF EMULSIFYING WAX		Pass	-	P
G30001	APPEARANCE (COLOUR)	WHITE TO PALE YELLOW		Pass	-	P
G30001	APPEARANCE (FORM)	SOLID		Pass	-	P
G01101	ACID VALUE	0.0	1.0	0.1	mg KOH/g	P
G01701	COLOUR GARDNER	0	1	0	Gardner	P
G01201	HYDROXYL VALUE	178	192	181	mg KOH/g	P
G01503	IODINE VALUE (HANUS)	0.0	3.5	0.4	gl2/100g	P
G03001	MELTING RANGE	50	54	52	°C	P
G04402	PH (3% DISPERSION)	5.5	7.0	7.0		P
G01403	SAPONIFICATION VALUE	0	14	10	mg KOH/g	P
G13300	RESIDUAL ETHYLENE OXIDE	1 PPM MAX		Pass	-	P
G13300	RESIDUAL DIOXANE	5 PPM MAX		Pass	-	P

This Product has been manufactured and tested to GMP in accordance with EXCiPACT

Batch Status: Pass

The quality tests on this batch are reported above. The tests carried out are those necessary to demonstrate

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compliance with our product specification and are not intended to guarantee the product as suitable for any application beyond those contained in the specification. We recommend you perform your own quality and or identification checks on receipt

The name printed at the end of this document is an electronic signature.

Confirmed by

Elizabeth Carnahan