

# 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

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## Customer details

**Gracefruit Limited**  
**209 Glasgow Road**  
**Longcroft**  
**Bonnybridge**  
**FK4 1QQ**

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## Batch Details

<b>Product Name:</b>	<b>EMULS WAX NF MBAL-PA-(RB)</b>	<b>Date of test:</b>	22.11.2019
<b>Product Code:</b>	EM02491/0020/B28	<b>Date of manufacture:</b>	22.11.2019
<b>Batch No:</b>	0001609026	<b>Retest date:</b>	21.11.2020

**Specification:** CREATED 02-JUL-2015

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## Quality Control Results

Analytical Test Method No.	Characteristic	Specification Limit		Value	Unit	Status
		Lower	Upper			
	Addendum 00	PASS OR FAIL		Pass	-	P
	REVISION NUMBER	0.0		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	0.2	mg KOH/g	P
G01701	COLOUR GARDNER	0	1	0	Gardner	P
G01201	HYDROXYL VALUE	178	192	187	mg KOH/g	P
G01503	IODINE VALUE (HANUS)	0.0	3.5	0.1	gl2/100g	P
G03001	MELTING RANGE	50	54	53	°C	P
G04402	PH (3% DISPERSION)	5.5	7.0	5.6		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
	RSPO CERTIFICATION NUMBER	BMT-RSPO-000157		Pass	-	P

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

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**Batch Status:** Pass

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<b>Customer Ref.</b>	
<b>Inspection Lot</b>	040001001658
<b>C of A Printed.</b>	06.01.2020
<b>Croda Order No.</b>	
<b>Croda Del. No.</b>	
<b>Quantity.</b>	0.000

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

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