



+1-847-446-7500
 1-800-457-7573
 Tech Services:
 +1-800-745-7837

Certificate of Analysis

Print Date: 08-OCT-2019 14:33:48 EST
 Page: 1 / 2
 Order No: 10929314 Line: 10
 Shipment: 792680777
 Customer PO No: 007044-MW00
 Customer Code: PR013433
 Reprint

CHARLES TENNANT & CO
 34 CLAYSON RD
 WESTON, ON M9M 2G8
 Canada

Material No. & Description: 1086291 NEOBEE M-5/MB
 Specification number: PM212_STP Issue: 9 (30-SEP-2015)

Batch/Lot: 0008302926 Date of Manufacture: 18-SEP-2019
 Quantity: 4 DR Certification Date: 18-SEP-2019
 Location: MAYWOOD, NJ US Recommended Retest Date: 17-SEP-2022

Description	Limits	In Out	Result	Units
110-0 APPEARANCE (@ 25C) (Color < NF Standard)	Clear, Water White Liquid	IN	Passes	
022-0 WATER	0.1 Max.	IN	0.0	%
C0173 FREE FATTY ACID (%) (As Oleic)	0.05 Max.	IN	0.01	%
514-0 ACID VALUE	0.1 Max.	IN	0.0	mg KOH/g
053-0 HYDROXYL VALUE	5.0 Max.	IN	1.7	mg KOH/g
516-0 SAPONIFICATION NUMBER	340 - 358	IN	344	mg KOH/g
513-0 PEROXIDE	0.5 Max.	IN	0.0	meq/kg
006-A COLOR LOVIBOND (Y)	10 Max.	IN	0	
006-A COLOR LOVIBOND (R)	0.4 Max.	IN	0.0	
006-B COLOR APHA	100 Max.	IN	13	
103-F CARBON DISTRIBUTION	%	IN		
103-F C06	2.0 Max.	IN	0.2	%
103-F C08	65.0 - 80.0	IN	72.2	%
103-F C10	23 - 33	IN	27	%
103-F C08 & C10	95 Min.	IN	100	%
103-F C12	3.0 Max.	IN	0.0	%
103-F C14	1.0 Max.	IN	0.0	%
544-0 REFRACTIVE INDEX (@ 20C)	1.440 - 1.452	IN	1.447	
506-0 SPECIFIC GRAVITY (@ 20C)	0.930 - 0.960	IN	0.943	
580-0 FLAVOR/AROMA	Bland, Characteristic	IN	Passes	
167-A INFRARED ID	Matches IR Spectra	IN	Passes	
128-0* UNSAPONIFIABLE MATTER (%)	0.5 Max.	IN	Complies	
518-0* IODINE VALUE	0.50 Max.	IN	Complies	
112-0* ASH	0.1 Max.	IN	Complies	
E00-0* ARSENIC (ppm)	0.5 Max.	IN	Complies	

This certificate is electronically generated and is valid without a signature.

THIS ANALYSIS IS NOT TO BE CONSTRUED AS A WARRANTY, EXPRESSED OR IMPLIED. The preceding data is provided at the request of and for convenience of the customer and does not relieve the customer of its responsibility to verify data contained on this report and to perform any other analysis necessary to determine suitability of the product described above for the use intended by the customer

DEDICATED TO CONTINUOUS IMPROVEMENT THROUGH SQC & SPC



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 Specification number: PM212_STP Issue: 9 (30-SEP-2015)

Batch: 0008302926

Description	Limits	Spc	Result	Units
E00-0* CHROMIUM (ppm)	0.05 Max.	IN	Complies	
E00-0* COPPER (ppm)	0.05 Max.	IN	Complies	
E00-0* HEAVY METALS (ppm) (Total as Pb)	10 Max.	IN	Complies	
E00-0* LEAD (ppm)	0.10 Max.	IN	Complies	
E00-0* NICKEL (ppm)	0.1 Max.	IN	Complies	
E00-0* TIN (ppm)	0.1 Max.	IN	Complies	
024-0* VISCOSITY (cps) (@ 19.9 - 20.1C)	25 - 33	IN	Complies	
006-A* COLOR GARDNER	3 Max.	IN	Complies	
285-A* MICROBIOLOGY (cfu/g)	< 100	IN	Complies	
E00-0* RESIDUAL SOLVENTS	ICH/EP	IN	Complies	
E00-0* CERTIFIED KOSHER	Certified	IN	Complies	
999-0* ALKALINE IMPURITIES (USP)	0.15mL of 0.01 HCl Max.	IN	Complies	
T00-0* TSE/BSE ASSESSMENT	Non-Animal Origin	IN	Complies	
T00-0* IDENTIFICATION	Meets Requirements A, B	IN	Complies	
T00-0* COMPLIES TO EP MONOGRAPH	Complies To EP Monograph	IN	Complies	

* Indicates component is a compliance test which is tested according to skip-lot testing schedule

RSPO Member #: 2-0248-11-000-00

RSPO Certificate #: CU-RSPO SCC-847209

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