

Date 20-OCT-2021 Page 1 / 4
 Order 33034568 / 000001
 Your Order number SYM21/0533 - 33/21
 Delivery 83324706 / 000001
 Partner-No. 20127065
 Contact person Alexandra Rabke
 Supply Chain - Customer Service
 Tel. 05531/901364
 Fax 05531/902287
 alexandra.rabke@symrise.com

Material: **600012**
MENTHOL LAEVO PELLETS PH
 Batch/Lot: 10300369 200,000 KG
 Storage: dry, 10 to 30°C
 Date produced SEP 2021
 Best before AUG 2023

Characteristics	Value	Lower Limit	Upper Limit
0605 Sensory analysis 40 ppm, Premix in Ethanol Taste in test medium sweet	according to standard 1)comparable to standard		
0223 Initial odor Odor	according to standard 1)comparable to standard		
0864 Visual evaluation in sample vial Appearance Color Color/appearance pure	1)pelletized crystals 1)pale white to white passed test		
0340 Determination by AAS or ICP Zinc Titanium	2)mg/kg 2)mg/kg	Not Inspected Not Inspected	max. 10 max. 10
0705 Acidic or basic reacting substances (EUR. PH.) Acidic or basic reacting substances	ml	0,21	max. 0,5
0770 Identity, purity (GC) Column Polydimethylsiloxane, RI / RT, FID-Detector Content (GC, USP / NF)	%	100,0	98,0 102,0

Material: **600012**
Batch/Lot: 10300369 200,000 KG

Characteristics	Value	Lower Limit	Upper Limit
Related substances (GC, USP / NF) Sum impurities < 2.0 %	passed test 1)passed test		
Related substances (GC, USP / NF) Single impurity < 0.3 %	passed test 1)passed test		
1024 Purity Menthol Laevo Comp. PH (GC) Column Polydimethylsiloxane, RT / RI, FID-Detektor			
Menthol Laevo komp.	Area % 99,98	99,70	100,00
Identity (EUR. PH.)	1158	1152	1162
GC purity of Menthol Laevo Comp. PH	< 0.10 %		
Non-specified impurities < 0.10 %	1)< 0.10 %		
GC purity of Menthol Laevo Comp. PH Sum impurities	Area % 0,0	max.	1,0
Related substances (Pharmacopoeia) Eur. Ph.	% 0,02	0,00	0,30
0253 IR identity FCC			
IR, Identity	passed test 1)passed test		
0693 Identity test A (USP/NF)			
Identity (Pharmacopoeia)	passed test 1)passed test		
0696 Identity test B (USP/NF)			
Identity (Pharmacopoeia)	passed test 1)passed test		
0695 Identity test, Eur. Ph., specific rotation			
Identity test A (Eur. Ph.)	Degree -49,3	-51	-48
0735 Melting point (USP / NF)			
Melting point	°C 42,8	41	44
0734 Melting point (FCC)			
Melting point	°C 42,8	41	44
0855 Monograph			
FCC 11	passed test 1)passed test		

Material: **600012**
Batch/Lot: 10300369 200,000 KG

Characteristics	Value	Lower Limit	Upper Limit
0855 BP 2021 Pharmacopoeia	passed test 1)passed test		
0855 Eur. Ph. 10.5 Pharmacopoeia	passed test 1)passed test		
0855 USP-NF 2021 Pharmacopoeia	passed test 1)passed test		
0724 Residue on evaporation (USP / NF) Residue on evaporation (Pharmacopoeia)	% 0,00	max.	0,05
0723 Residue on evaporation (EUR. PH.) Residue on evaporation (Pharmacopoeia)	% 0,00	max.	0,05
0726 Residue on evaporation (FCC) Residue on evaporation (Pharmacopoeia)	% 0,00	max.	0,05
0741 Specific rotation (USP / NF), 25°C, Polarimeter Specific rotation (Pharmacopoeia)	Degree -49,1	-51	-45
0740 Specific rotation (FCC), 25°C, Polarimeter Specific rotation (Pharmacopoeia)	Degree -49,1	-51	-45
0727 Appearance / Color of solution (EUR.PH.) Appearance of solution (Pharmacopoeia)	passed test 1)passed test		
0769 GLC headspace Column Polydimethylsiloxane, 60m, FID Organic volatile impurities (USP / NF) Methanol Organic volatile impurities (USP / NF) Acetone	passed test 1)passed test passed test 1)passed test		

Material: **600012**
 Batch/Lot: 10300369 200,000 KG

Characteristics	Value		Lower Limit	Upper Limit
0037 GC Headspace Column Polydimethylsiloxane, 60m, FID				
Methanol	ppm	< 10	max.	50
Acetone	ppm	25	max.	200

For information only

Flashpoint (CC)	°C	approx. 94
	°F	approx. 201

Annotation:

- 1) Target
- 2) Intermittent tested. This time skipped.

The certificate does not release the user from the responsibility of undertaking his own tests of the characteristics of the product and its suitability in the intended application. This is a computer generated certificate of analysis and is therefore not signed by hand. The positive release procedure and the stringent workflow of the computerized system ensure the same level of reliability as a handwritten signature.