

JSC Olainfarm 5 Rupoicu str., Olaine, LV-2114, Latvia Phone: +371 67013780, Faz: +371 67013777 c-mail : <u>clainfarm@olainfarm.lv</u>

	QUALITY (CERTIFICATE No. 15/2	
Name of Product/ Chemical Name	MELDONIUM DIHYDRATE		
CAS No.	86426-17-7		
Order number	2016 6514		
Batch Number	150816		
Batch Size/kg	214,48 kg	Released from warehouse/kg	25.00 kg
Date of Manufacture	08-2016		20.00 Rg
Retest date	08-2018		
Importing country/Destination	Italy		The state of the s
Name and address of manufacturing site/quality control site	JSC Olainfari 5 Rupnicu str	n ., Olaine, LV-2114, Latvia	
Number of manufacturing Authorisation	AFV-01/3		Militar.
Number of GMP certificate	ZVA/LV/2015	5/011A	\$ months

-	Specifications according to	
Tests	KQS8.619.046/3	Results
Description	White or almost white crystalline powd	er Almost white crystalline powder
Solubility	Very soluble in water, freely soluble in practically insoluble in acetone	methanol, Conforms
Identification A. IR spectrum (in 1 % KBr tablet) B. Qualitative reaction	Conforms to meldonium dihydrate CRS Positive	spectrum Conforms
Particle size* larger than 630 µm smaller than 100 µm	Not more than 5 % Not more than 15 %	1 %
Chlorides	Not more than 100 ppm	Less than 100 ppm
Sulfates	Not more than 100 ppm	Less than 100 ppm
Clarity of solution (10.0 g; 50 mL H ₂ O)	Clear, comparing to reference suspension	n I Clear, comparing to reference suspension I
Colour of solution (10.0 g; 50 mL H ₂ O)	Not more than reference solution Be	Less than reference solution Be
oH (10.0 g; 50 mL H ₂ O)	7.5 - 9.0	8.9
Vater	19.7 %-21.0 %	20.5 %
Sulfated ash (1.0 g)	Not more than 0.1 %	0.04 %
lleavy metals [10 % m/V solution; lead standard solution (1 ppm Pb)]	Not more than 10 ppm	Less than 10 ppm
Related substances; 3-methyl-(2,2,2-trimethylhydrazi- nium)propionate bromide 1,1,1-trimethylhydrazinium salts on	Not more than 0.10 % Not more than 0.10 %	Less than 0.01 %
rimethythydrazinium ion each unknown impurity total	Not more than 0.10 % Not more than 0.3 %	Less than 0.01 % Less than 0.01 %
Residual solvents ethyl alcohol	Not more than 3000 ppm	280 ppm
ssay, calculated to anhydrous substance	99.0 % - 101.0 %	100.2 %
Alicrobiological quality: total aerobic microbial count (TAMC) total combined yeasts/moulds count (TAMC) Escherichia coli	Not more than 10 ³ CFU/1 g Not more than 10 ² CFU/1 g Absence in 1 g	Less than 10 CFU/1 g Less than 10 CFU/1 g Absent in 1 g
pproved by UVershilovska		ignature
cting Head of QC hereby certify that the above information is a id quality control at the above mentioned situated processing, packaging and analysis record	s in this compliance with the GMP requi	rements of the local Regulatory Authority. 7 iance with GMP.
elensed by Borcova unlified Person	Date S	ignature of person authorising the batch release