



Release certificate

Product:	Cannabis flos, variety Bedrolite (hemp flowers), granulated		
Country:	to be sold on the pharmaceutical market		
Strength:	dronabinol: < 1.0%	cannabidiol: approx. 9%	
Dosage form:	flowers		
Package size:	5 grams in container, 250 grams in bags		
Batch:	15D06FR15H12		
Order numbers:	container:	310445 to 310446	
	bags:	310444	
Grower/drier:	Bedrocan BV P.O. Box 2009 NL- 9640 CA Veendam	harvest date/period:	6 April 2015
Gamma irradiation:	Synergy Health Soeverinstraat 2 NL-4879 NN Etten-Leur	date:	12 August 2015
		dose:	≥ 10,0 kGy
Packager:	Fagron BV Venkelbaan 101 NL-2908 KE Capelle a/d IJssel	date:	27 – 28 August 2015
Part of analysis:	1.general analysis	2.microbiology of end product in container	
Laboratories:	1. Farmalyse BV Pieter Lieftinckweg 2 NL-1505 HX Zaandam	2. Bactimm BV Middenkampweg 17 NL-6545 CH Nijmegen	
Analysis number:	1. 394-1505-0607	2.	14.795
Report date:	1. 29 May 2015	2.	8 September 2015
Testing method:	Analytical monograph by BMC / Farmalyse, version 7.1, Nov. 28, 2014		
End check:	Office of Medicinal Cannabis	date:	2 September 2015

	Method	Specification	Result
Appearance	monograph	brown green granulated material of the flowers (about 5 mm) with a characteristic smell	conform
Identity			
<i>microscopy</i>	monograph	mainly gland hairs visible	conform
<i>thin layer</i>	monograph	monograph	conform
<i>chromatography</i>			
Foreign material	monograph	stalks, insects and other vermin are absent	conform
Fineness	monograph	fine granulated flowers without stalks longer than 1,0 – 1,5 cm	conform



	Method	Specification	Result
Microbiological purity	Ph. Eur (current ed.) 5.1.4.		
<i>Total aerobic microbial count (TAMC)</i>	5.1.4.-1.	$\leq 10^2$ cfu/gram	< 10 cfu/gram
<i>Total yeast and moulds count (TYMC)</i>	5.1.4.-1.	≤ 10 cfu/gram	< 10 cfu/gram
<i>P. aeruginosa, S.aureus and Bile tolerant gram neg bacteria</i>	5.1.4.-1.	absent	conform
Absence of aflatoxines	Ph.Eur (current ed.) "Determination of aflatoxins B ₁ , B ₂ , G ₁ and G ₂ in herbal drugs" (2.8.18)	< 4 µg/kg	< 2.2 µg/kg
Absence of pesticides	monograph	Ph. Eur (current ed.) 2.8.13	conform
Absence of heavy metals			
<i>lead</i>	Ph. Eur (current ed.)	max. 20.0 ppm	< 2 ppm
<i>mercury</i>	"Heavy metals in herbal drugs and fatty oils" (monograph)	max. 0.5 ppm	< 0.1 ppm
<i>cadmium</i>		max. 0.5 ppm	< 0.1 ppm
Loss on drying	Ph. Eur (current ed.) "Loss on drying" meth. C (2.2.32)	≤ 10.0 %	7.6 %
Assay (UPLC)			
<i>fingerprint</i>	monograph	similar	conform
<i>dronabinol (THC)</i>	monograph	< 1.0 %	0.3 %
<i>cannabidiol (CBD)</i>	monograph	approx. 9 %	7.0 %
Related substances (UPLC)			
<i>cannabinol (CBN)</i>	monograph	< 1.0 %	- %
Content of container	BMC-SWV 320	approx. 5 gram	± 5.02 gram
Expiry date			08 / 2016

I hereby certify that the above information is authentic and accurate. This batch of product has been cultivated and manufactured, including packaging and quality control at the above mentioned sites in full compliance with the GAP requirements as published in the Dutch State Gazette (Staatscourant) as the annex to the Regulation of the Minister of Health, Welfare and Sport of 9 January 2003, GMT/BMC 2340685, and with the specifications as stated in this document. The batch processing, packaging and analysis records were reviewed and found to be in compliance with GAP and GMP.

The Hague, the Netherlands, 8 September 2015

Dr. M.J. van de Velde