

METAPHARMACEUTICAL

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22/12/2022

PRODUCT SPECIFICATIONS AND

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CERTIFICATE OF ANALYSIS

Product Name: ERGOTAMINE TARTRATE

Control No.: 72111000822 Order No.: J220016001

Client Packing Order: 13241362 OP

Customer Name: IMCD SWITZERLAND AG

Quantity: 25.000 KG Quality Market: EUR, USA

Manufacturing Site: TEVA Czech Industries s.r.o. Original Analysis Date: April 2022

Manufacturing Date: April 2022 Re Test date: April 2027

Packaging and storage: Preserve in tight, light-resistant containers at a temperature from +2

°C to +8°C.Primary package should be maintained in polyethylene

bag with desiccant.

TESTS AND METHODS	SPECIFICATIONS	RESULTS*			
SV-721110-01, rev.7 TESTS					
Description	White or almost white crystalline powder or colourless crystals.	Complies			
Visually					
Identity (IR)	The IR spectrum of the tested substance exhibits maxima at the same wavelengths as that of the reference standard obtained under the same conditions	Complies			
EP (2.2.24)	7				
pH value	4.0 to 5.5	5.3			
EP (2.2.3)					
Related substances (HPLC)					
AM-AQC-LC1278	1				
Ergostine (EP imp. C)	NMT 0.40 %	0.23%			
8-hydroxyergotamine (EP imp. A)	NMT 0.20 %	0.06%			
Ergotaminine (EP imp. B)	NMT 0.20 %	0.06%			
Any unspecified impurities	NMT 0.10 %	0.05%			
Total impurities	NMT 0.60 %	0.40%			
Loss on drying EP (2.2.32)	NMT 6.0 %	0.9%			



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Quality Market:

EUR, USA

Manufacturing Site: TEVA Czech Industries s.r.o.

Customer Name:

25.000

Original Analysis Date:

Client Packing Order:

April 2022

13241362 OP

Manufacturing Date: April 2022

Re Test date: April 2027

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TESTS AND METHODS	SPECIFICATIONS	RESULTS*
Assay (TITR) EP (2.2.20)	98.0 to 101.0 calculated on dried substance	100.1%
Organic residual solvents AM-AQC-GC1025		
Acetone	NMT 5000 ppm	Less than 20ppm
Toluene	NMT 890 ppm	30ppm
Methanol	NMT 3000 ppm	271ppm
	SV-721110-12, rev.5 TESTS	
Description	Colourless crystals or white to yellowish-white, crystalline powder.	Complies
Visual		
Identity HPLC	Retention time of the principal peak in the chromatogram of the tested substance corresponds to the retention time of the peak in chromatogram of the reference standard.	Complies
AM-AQC-LC026 or AM-AQC-LC1278		



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	0.23% 0.06%
	1.0 1.2 2.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1
	1.0 1.2 2.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1
	1.0 1.2 2.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1
	0.06%
	0.0070
	0.06%
	0.05%
	0.4%
alculated on ergotamine base	-160°
	1.0%
recalculated on dried substance	99.9%
a	Less than 20ppn
'	30ppm
	271ppm
	m m , rev.1 TESTS



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TESTS AND METHODS	SPECIFICATIONS	RESULTS*
	SI DELI TENTIONO	I
Particle size (laser)		
AM-AQC-OT1012		1
D10	NMT 5 um	3um
D50	NMT 15 um	10um
D90	NMT 40 um	22um

Remarks:

- 1. Conforms to the requirements of the SV-721110-01, rev.7 and SV-721110-12, rev.5 and CS01, rev.1 Specifications.
- 2. Conforms to the current EP monograph and the In house tests.
- 3. Conforms to the current USP monograph.
- 4. The following residual solvents Class 1, as defined in the ICH Q3C, benzene, carbon tetrachloride, 1,2-Dichloroethane, 1,1-Dichloroethene and 1,1,1- Trichloroethane are not present in the Active Pharmaceutical ingredient.
- 5. The product meets the requirements for residual solvents USP <467>, EP 5.4 and ICH guide Q3C.
- 6. The product meets the requirements for residual solvents according to the current USP <467>, PhEur Chapter 5.4 and ICH O3C
- 7. The product has been produced and controlled in compliance with GMP rules and valid documentation. Tested parameters comply with the approved specification.
- 8. We declare that the batch was produced according to the currently valid R1-CEP 2007-328-Rev 03.



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Quality Control Manager:

Signature**: PP\ Jaroslav Hanzal

18 May 2022 15:23:16

Jiri Hendrych

Print Date: 18 May 2022

Approval: Tomas Kolasin

(*) Upon completion of the 'Results' column this document becomes a certificate of analysis

End of CQA

(**) This document was signed electronically and this is the manifestation of the electronic signature.