

Certificate of Analysis

Productname: Morphini hydrochloridum
Number of analysis/Inspection Code: 1 / KEUR-194540B
Batchnumber: 21H02-F01-380908
Reference code / No.: 4177 / F.103.007/K
Analysed according to: PHEUR10.5+

Tests	Requirement	Result	Unit	Standard remark
Appearance	(Almost) white, crystalline powder or colourless, silky needles or cubic masses	Conform Conform Conform		
Particle size	97% < 125 µm	Conform		Microscopy
Identification A	Conform	Conform		IR-spectrum
Identification E	White	Conform		Chloride
Appearance of solution	Clear / <=Y6 or BY6	Conform		2%m/V
Acidity or alkalinity	Conform	Conform		
Specific optical rotation	-110 - -115	-114		2%m/V; dried
Related substances	Conform	Conform		HPLC
Impurity B	<=0,4	<0,1	%	
Impurity C	<=0,2	n.d.	%	
Impurity E	<=0,2	<0,05	%	
Any other impurity	<=0,2	0,1	%	
Total impurities	<=1,0	0,1	%	
Water (Karl Fischer)	12,5 - 15,5	13,1	%	
Sulphated ash	<=0,1	0,0	%	
Metallic residues	CHMP/ICH/353369/2013	Conform		Data producer
Residual solvents	CHMP/ICH/82260/2006	Conform		Data producer
Assay Morphine hydrochloride	98,0 - 102,0	99,0	%m/m	Anhydrous
Total aerobic microbial count (TAMC)	<=10	Conform	CFU / g	
Total yeasts and moulds (TYMC)	<=1	Conform	CFU / g	
TSE/BSE-statement:	No contamination with TSE/BSE-risk materials	Conform		Data producer
CEP	CEP available	Conform		Data producer

Analysis performed by the authorized laboratory Proxylabs+Microb..

Release:

Anthony Amoureux

Qualified Person

05/05/22

Expiration: 01-2026

Conclusion: APPROVED

This document has been produced electronically from our quality system and is valid without signature.