

# Batch Release Certificate

**Product name:** Dextran 1 EP/USP  
**Specification No.:** 40082  
**Batch No.:** xxxxxx  
**Manufacturing date:** mmmm\_yyyy  
**Retest date (3 years):** mmmm\_yyyy

**Manufacturing sites:** Pharmacosmos A/S, Roervangsvej 30, DK-4300 Holbaek, Denmark  
**DKMA\* No.:** 254629  
**GMP certificate No.:** DK API-H 00083617, DK API-V 00083617  
**FDA establishment No.:** FEI 3002807874  
**FDA facility classification:** Acceptable  
**EDQM\* certificate No.:** R1-CEP 2003-165-Rev 00

Method:	Parameter:	Results of analysis:	Limits:
EP	Characters:	Complies	White or almost white hygroscopic powder
EP	Solubility:	Complies	Very soluble in water, very slightly soluble in ethanol 96%
EP	Color of solution (Absorbance at 375 nm, 15% sol., 1 cm):	x.xx	≤0.12
EP	Specific rotation, (+/-) °:	+x	+148 – +164
USP	Specific rotation, (+/-) °:	+x	+148 – +164
USP	Infrared Absorption:	Complies	** Complies
USP	pH (15% solution):	x.x	4.5 – 7.0
EP	Average molecular mass, Mw:	x,xxx	850 – 1,150
EP	<3 glucose units fraction, % w/w:	x	<15
EP	>9 glucose units fraction, % w/w:	x	<20
USP	Alcohol and related impurities:	Complies	** Complies
EP/USP	Residual solvent, % by GC:	Complies	** Complies
EP	Nitrogen containing substances, ppm	x	≤110
EP	Sodium chloride, % w/w:	x.x	≤1.5
EP	Loss on drying (105°C, 5h), % w/w:	x.x	*** ≤5.0
USP	Loss on drying (105°C, 5h), % w/w:	x.x	*** ≤5.0
EP/USP	Bacterial endotoxins, IU/g:	Complies	<25
EP/USP	Microbial contamination, cfu/g:	Complies	≤100

References to official monographs are to be considered as current editions.

We hereby confirm that no metal catalysts or metal reagents are used in the manufacturing of this product. Elemental impurities, cf. ICH Q3D are unlikely to be present.

We hereby confirm that no class 1, class 2 and class 3 solvent, cf. EP 5.4 Residual solvents, is used in the manufacturing of this product.

\*) EDQM refers to 'European Directorate for the Quality of Medicines and Healthcare'. DKMA refers to 'Danish Medicines Agency'

\*\*\*) Test is not carried out routinely.

\*\*\*\*) Due to the hygroscopic nature of the powder, loss on drying may change during storage. We recommend keeping small packs (100g and 500g) well closed and protected against moisture.

### CERTIFICATE OF CONFORMITY

I hereby certify that the above information is authentic and accurate. This batch of Active Pharmaceutical Ingredient has been manufactured, including packaging and quality control at the above mentioned site in full compliance with the GMP requirements for active starting materials and with the above mentioned specifications. The batch processing, packaging and analysis records were reviewed and found to be in compliance with GMP.

Date (dd.mm.yyyy):

Qualified Person, Heidi Skjødt Andersen, M.Sc. Pharm

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