

CYCLOLAB CYCLODEXTRIN RESEARCH & DEVELOPMENT LABORATORY LTD.

MAIL: BUDAPEST, P.O.BOX 435, H-1525 HUNGARY LOCATION: ILLATOS ÚT 7. BUDAPEST, H-1097 HUNGARY TEL: +36 (1) 347 6070

E-MAIL: cyclolab@cyclolab.hu WEB: www.cyclolab.hu VAT No.: HU 10678970

ISO 9001

PRODUCT SPECIFICATION

Product:6-Deoxy-6-((2-carboxyethyl)sulfinyl)-heptakis(6-deoxy-6-(2-carboxyethyl)thio)-gamma-cyclodextrin partly

sodium salt

(Mono-SO-SGM)

Molecular formula: C72H112-n+3mNmNanO49S8

Formula weight: $2018 + n \cdot 22 + m \cdot 17$

Quality: analytical standard

Version: 01

Code: Rel_SGM_CY_3228_v01

Prepared by (QC)/date:	Revised by (QA)/date:	Approved by (QA)/date:
24 November 2022.	fy 2-25	alle Elle

Tests and methods	Requirements
Appearance# / visual	white or off-white powder
Identification 1 / LC-MS (EP 2.2.29., 2.2.43)	conforms to theoretical mass
Identification 2 / NMR (EP 2.2.33)	conforms to theoretical structure
Identification 3 / IR (EP 2.2.24)	conforms to standard
Purity as mixture of epimers#1 / HPLC (EP 2.2.29)	> 90.0 area %
Distribution of epimers	to be reported
Other cyclodextrin-related impurities#1 / HPLC (EP 2.2.29)	< 10.0 area %
Formate content (expressed as Sodium formate) / CE (EP 2.2.47)	< 3.0 w/w %
Sodium content ² / CE (EP 2.2.47)	< 10.0 w/w%
Ammonium content / CE (EP 2.2.47)	< 10.0 w/w%
Residual solvents / TGM-MS (EP 2.2.34, 2.2.43)	< 10.0 w/w%
Purity calculated ³	to be reported

[#] tests to extend expiry

BE



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- HPLC analysis to be carried out on an Agilent Poroshell column with H₃PO₄ / NH₃ buffer system at pH=2.6 and UV-Vis detection
- The compound is supplied in slightly acidic form for stability reasons; the actual molar sodium content (n) is indicated on the Certificate of Analysis of each batch.
- Calculated purity (w/w%) = ((100 (w/w%) Sodium formate content (w/w%) Residual solvents (w/w%))*Purity (area%))/100

<u>Comments:</u> only for reagent and laboratory purposes, not for human use. <u>Storage:</u> in deep freezer, under inert atmosphere, in tightly closed container.

Retest date: 12 months from date of qualification.

Version No:	Short description of change
01	First version