

METAPHARMACEUTICAL SR Nagar, Hyd-38, TS, INDIA

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Azico Biophore India Pvt. Ltd 425/3RT, Door No. 7-1-621/328 CIN NO.: U24233AP2008PTRC061809 £ +91-40-2381 0385 / 23705066

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CERTIFICATE OF ANALYSIS

Product Name	SUGAMMADEX SODIUM		
Reference	In-house	Mfg. Date	17/02/2022
Batch No.	4041/3/001/22	Retest Date	16/02/2025
Date of Analysis	02/03/2022	Dispatch Qty.	2.00 Kg.
Name of the Customer	M/s. METAPHARMACEUTICAL IND SL.		

S. No.	Test Parameter	Specification	Result
1.	Description	White to off white powder.	white powder
2.	Solubility	Freely soluble in water, practically insoluble in anhydrous ethanol and in Propanol-2	Complies
	Identification by		atherization as a second secon
3.	a) IR Spectroscopy (KBr cm ⁻¹)	The IR spectrum of the Absorption values of test sample should match with that of IR spectrum of standard.	Complies
	b) HPLC	The retention time of the major peak in the chromatogram of the sample preparation corresponds to that in the chromatogram of the standard preparation, as obtained in the assay in HPLC.	Complies
	c) Sodium test	A dense precipitate should be formed	Complies
4.	Water content by KF (%,w/w)	Not more than 15.0	8.68
5.	Color of the solution	The absorbance at 430 nm should be not more than 0.05	0.00
6.	Clarity of the solution	Solution should be clear.	Complies
7.	pH (Concentration: 1.0% in water)	7.0 to 9.5	8.18
	Related substance by HPLC (%w/w)	
8.	a) Sulfoxide Diastereomer-I	Not more than 0.25	0.13
	b) Sulfoxide Diastereomer-II	Not more than 0.25	0.20
	c) Highest Individual unspecified impurity	Not more than 0.08	0.05
	d) Total Impurities	Not more than 1.0	0.53
9.	Monohydroxy impurity content by HPLC (%w/w)	Not more than 3.0	2.3
9.		Not more than 3.0	O Anai

	Prepared By	Checked By	Approved By
Name	B. Appadu	G. Subrahmanyam	Baburao Koyyagura
Designation - Dept.	Chemist - QAD	Asst. Manager - QAD	Dy. Manager - QAD
Sign & Date	QQ 11/05/2023	100 1105/22	11105/102

PLOT NO.: 40/A, J.N. PHARMA CITY, PARAWADA MANDAL, ANAKAPALLI, A.P. INDIA

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S. No.	Test Parameter	Specification	Result ·		
	Acetic acid and Trifluoroacetic acid	content by HPLC(%, w/w)			
10.	Trifluoroacetic acid	Not more than 0.25	BDL		
	Acetic acid	Not more than 0.50	0.06		
11.	Gamma Cyclodextrin (KSM) Content by HPLC(%w/w)	Not more than 0.08	Not detected		
12.	Assay by HPLC (Sugammadex sodium)(% w/w) (on anhydrous basis)	Not less than 95.0 and Not more than 102.0	98.4		
13.	Assay by HPLC (Sugammadex Sodium) (%w/w) (on anhydrous basis + Monohydroxy impurity content)	Not less than 98.0 and Not more than 102.0	100.9		
	Residual Solvents by HS-GC(ppm)				
	Method -I				
	a) Methanol	Not more than 3000	1033		
	b) Tetrahydrofuran	Not more than 720	Not detected		
	c) Dichloromethane	Not more than 600	BQL		
14.	d) Toluene	Not more than 890	BDL		
	e) Methyl tertiary butyl ether	Not more than 5000	BDL		
	f) Ethyl acetate	Not more than 5000	BDL		
	Method-II				
	a) N,N-Dimethyl formamide	Not more than 880	BQL		
	b) Dimethyl Sulfoxide	Not more than 5000	Not detected		
15.	Sodium content by ICP-MS(%, on anhydrous basis)	Between 7.50 to 9.20	9.12		

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Sign & Date	Ria 1105/2023	100-11/05/23	105/2023

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CERTIFICATE OF ANALYSIS

Product Name	SUGAMMADEX SODIT	JM	
Reference	In-house	Mfg. Date	17/02/2022
Batch No.	4041/3/001/22	Retest Date	16/02/2025
Date of Analysis	02/03/2022	Dispatch Qty.	2.00 Kg.
Name of the Customer	M/s. METAPHARMACI	EUTICAL IND SL.	

S. No.	Test Parameter	Specification	Result
16.	Bacterial Endotoxin Test (EU / mg)	Not more Than 0.15	Less than 0.15
	Microbial Limit Test		
	Total Aerobic Microbial Count (CFU/gm)	Not more than 1000	90
	Total Combined Yeast and Molds Count (CFU/gm)	Not more than 100	20
17.	Detection of Specified Pathogens		
×	a) Escherichia coli	Shall be absent /gm	Absent
	b) Staphylococcus aureus	Shall be absent /gm	Absent
	c) Pseudomonas aeruginosa	Shall be absent/gm	Absent
	d) Salmonella Species	Shall be absent /gm	Absent

Chemical names of impurities:

Sulfoxide Diastereomer-I: Heptakis (6-S-(2-Carboxyethyl)-6-thio)-mono (6-S-(2-Carboxyethyl)- (R) - sulfinyl) cyclomaltooctaose.

Sulfoxide Diastereomer-II: Heptakis (6-S-(2-Carboxyethyl)-6-thio)-mono (6-S-(2-Carboxyethyl)-(S) sulfinyl) cyclomattooctaose.

Mono Hydroxy impurity: Heptakis (6-S-(2-Carboxyethyl)-6-thio)-γ-Cyclodextrin.

Packaging Conditions: Finished material shall be packed in transparent LDPE primary bag with nitrogen purging and tied with nylon strip. Then placed in black color LDPE secondary bag and tied with nylon strip. The same shall be placed in triple laminated aluminum bag and seal with heat and finally placed in HDPE container with clamp.

Storage Conditions: Preserve in tightly closed containers at 25°C, excursions permitted to between 15 to 30°C.

Remarks: The material Complies with the above specification.

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