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NOOTAN PHARMACEUTICALS, BAROTIWALA, BADDI

STANDARI	TEST SPECIFICATION	OUALITY CONTROL D	EPARTMENT AND THE
STANDAR	RAW MATERIAL	LSPECIFICATION	Katsan 101/1023
Name of Material.	SODIUM METHYL PA		DMC/042
Reference	IP	Spec/STP No.	RMS/043
Supersedes	Nil	Revision No.	00
Effective Date	06/01/2025	Review Date	As I when required

Sr. No.	Test	Specification
1.	Description	A white, crystalline powder; hygroscopic.
2.	Solubility	Freely soluble in water; sparingly, soluble in ethanol (95per ent), practically insoluble in fixed oils.
	Identification	
3.	A. By IR	The infrared absorption spectrum of the sample is concordant obtained from sodium methylparaben RS or with the reference spectrum of sodium methylparaben.
	B. By Chemically	A white precipitates are produced
4.	pH	9.5 to 10.5
5.	Related Substances (By liquid Chron	natography)
	A. Methyl paraben Impurity A	Not More Than 0.5%
	B. Individual Impurity	Not More Than 0.1%
	C. Total Impurity	Not More Than 1.0%
6.	Chlorides	Not more than 330 ppm
7.	Sulphates	Not more than 0.12 per cent
8.	Water	Not more than 5.0 %
9.	Assay(On anhydrous basis)	Not less than 95.0 % and not more than 102.0 %

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RAW MATERIAL STAN	DARD TEST PROCEDURE	Jendings Valavashar
SODIUM METHYL P		22.477/0.42
IP.	Spec/STP No.	RMT/043
Nil	Revision No.	00
0610112025	Review Date	As 4 When required
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1.0 DESCRIPTION:

Procedure:

Spread appropriately 1.0 g of sample over the Petri- dish and examine visually. Check the appearance of colour, nature and visible foreign particles.

2.0 SOLUBILITY:

Weigh accurately 1.0 g of sample in a suitable clean and dry conical flask and observe for solubility by adding

The descriptive term explaining solubility is given as below:

Descriptive Term	Volume of solvent in ml/gm of sample
Very Soluble	Less than 1.0 ml
Freely Soluble	From 01 to 10 ml
Soluble	From 10 to 30 ml
Sparingly Soluble	From 30 to 100 ml
Slightly Soluble	From 100 to 1000 ml
Very Slightly Soluble	From 1000 to 10,000 ml
Practically Insoluble or Insoluble	10,000 and over.

3.0 IDENTIFICATION: A. Dissolve 0.5 g in 5 ml of water and acidify to litmus paper with hydrochloric acid, a white precipitate is produced. Wash the precipitate with water and dry.

Determine by infrared absorption spectrophotometry. Compare the spectrum with that obtained with methylparaben IPRS.

- B. A 5 per cent w/v solution gives the reactions of sodium salts.
- 4.0 APPEARNCE OF SOLUTION: 10.0 per cent w/v solution in water is clear.
- 5.0 pH:- Prepare a slurry of 0.1 per cent w/v solution of sample shake for 15 minutes and check pH using a calibrated pH meter.
- 6.0 Related substances.

Determine by liquid chromatography

Test Solution: Dissolve 50.0 mg of the substance under examination in 2.5 ml of methanol and dilute to 50.0 ml with the mobile phase. Dilute 10.0 ml of the solution to 100.0 ml with the mobile phase.

Reference solution (a). Dissolve 5 mg of 4-hydroxybenzoic acid and 5 mg of the substance under examination in the mobile phase and dilute to 100.0 ml with the mobile phase. Dilute 1.0 ml of the solution to 10.0 ml with the mobile phase.

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V .	OUALITY CONTI	ROL DEPARTMENT	Valsanillors
1		DARD TEST PROCEDURE	1/DARB
Name of Material	SODIUM METHYL PA	ARABEN	
Reference	IP.	Spec/STP No.	RMT/043
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Reference solution (b). Dissolve 50 mg of methyl paraben IPRS in 2.5 ml of methanol and. dilute to 50.0 ml with the mobile phase. Dilute 10 ml of the solution to 100.0 ml with the mobile phase.

Reference solution (c). Dilute 1.0 ml of the test solution to 20.0 ml with the mobile phase. Dilute 1.0 ml of the solution to 10.0 ml with the mobile phase.

Chromatographic system . - a. stainless steel column 15 cm x 4.6 mm, packed-with octadecylsilane bonded to porous silica (5 µm)

- Mobile phase: a mixture of 35 volumes of 0.68 per cent w/v solution of potassium dihydrogen phosphate, and 65 volumes of methanol,

- Flow rate: 1:3 ml per minute,

- Spectrophotometerset at 272 nm,

- injection volume: 10 μl.

The relative retention time with reference to methy paraben for 4-hydroxybénzoic acid is about 0.6. Inject reference solution (a). The test is not, valid unless the resolution between the peaks due to methyl paraben and 4-hydroxybenzoic acid is not less than 2.0 inject reference solution (c) and the test solution. Run the

and 4-hydroxybenzoic acid is not less than 2.0. inject reference solution (c) and the test solution. Run the chromatogram five times the retention time of the principal. In the chromatogram obtained with the test solution the area of any peak corresponding to 4-hydroxybenzoic acid, multiply by 1,4 is not more than the six times the area of the Principal peak in the chromatogram obtained with reference solution (c) (3.0 per cent), the area of any other secondary peak is not more than the area of the principal peak in the chromatogram obtained with reference solution (c) (0.5 per cent) and the sum of areas of all the secondary peaks other than 4-hydroxybenzoic acid is not more than twice the area of the principal peak in the chromatogram obtained with reference solution (c) (1.0 per cent). Ignore the peak with an area less than 0.2 times the area of the principal peak in the chromatogram obtained with reference solution (c) (1.1 per cent).

with reference solution (c) (0.1 per cent).

7.0 Chlorides: Dissolve 1.0 g in 20 ml of water, add 0.4 ml of nitric acid and filter. 15 ml of the filtrate complies with the limittest for chlorides (330 ppm).

8.0 Sulphates: Dissolve 0.5 g in 40 ml of water, add 3.5 ml of 2 M hydrochloric acid, dilute to 60 ml with water and filter. 15 ml of the filtrate complies with the limit test for sulphates (0.12 per cent).

9.0 Water: Determined on 1.0 g.

Transfer 35 to 45 ml of methanol into titration vessel and titrate with KF reagent, which is standardized earlier, to the electrometric end point to consume any moisture present & refill the burette 0 mark again Quickly, add 0.50 g of the substance, mix and titrate with the reagent to electrometric end point the % of water content with display on the screen of the instrument.

Calculate the percentage of Water content by following formula:-

% Water Content = $\frac{V \times F \times 100}{A}$

V = Volume of KF Reagent consumed in ml.

V =	Volume of Kr Reagent C	onsumed in iii.		
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	- RAW MATERIAL STAND	DARD TEST PROCEDURE	Sign Date:
Name of Material	SODIUM METHYL PA	RABEN .	
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Reference	Nil	Revision No.	00
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F = Water equivalent factor of KF Reagent mg/ml.

10.0 Assay. Determine by liquid chromatography:

As described under Related substances. Inject reference solution (b) and the test solution. Calculate the content of C₈H₇NaO₃, multiplying the content of methyl paraben by a correction factor of 1.145.

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A = Weight of sample in mg.