

THE GOVERNMENT PHARMACEUTICAL ORGANIZATION

RAW MATERIAL SPECIFICATION

Title: Sodium Carboxymethylcellulose USP

Spec. No

: SP-AK30-S010

(Item No. 41023680)

Reference(s): USP 37 p.2148-2149 [Carboxymethylcellulose Sodium]

Rev. No

: 03

Other Requirements: GPO Specification

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USP 37

Description

: White to cream-colored powder or granules. The powder is

hygroscopic.

Solubility

: Insoluble in alcohol, in ether, and in most other organic solvents.

Identification

: A. To 1 mL of the Sample solution, diluted with an equal volume

of water in a small test tube, add 5 drops of 1-naphthol TS. Incline the test tube, and carefully introduce down the side of

the tube 2 mL of sulfuric acid so that it forms a lower layer.

A red-purple color develops at the interface.

[Sample solution: 1 g in 50 mL of water]

B. To 5 mL of the Sample solution, add an equal volume of

barium chloride TS. A fine, white precipitate is formed.

[Sample solution: 1 g in 50 mL of water]

C. Sample solution gives the reactions of sodium.

[Sample solution: 1 g in 50 mL of water]

Heavy metals < Method II>

: Not more than 20 ppm.

pH

: Between 6.5 and 8.5 in a solution (1 in 100).

Loss on drying

: Not more than 10.0%.

Labeling

: Label it to indicate the viscosity in solutions of stated

concentrations.

Assay

: It contains not less than 6.5% and not more than 9.5% of sodium

(Na), calculated on the dried basis.

Prepared by:

Reviewed by:

Approved by:

Eff. Date

g. 100ppadedr, 29/05/12

Director of Raw Material

Praparaduc. Acting, 29/05/15

19/06/15

Head of Raw Material

Standard Section 2

Standard Division

Director of Regulatory Compliance

and Documentation Division

Director of Quality Assurance Department



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GPO Specification

Viscosity

: Between 300 and 600 cps.

(use 1%w/w solution; at 25°C)

Particle size distribution estimation by analytical sieving

- Retained on sieve no. 60

: Not more than 5.0%.

- Retained on sieve no. 100 : Not more than 10.0%.

- Passed through sieve no. 200: Not less than 55.0%.

เอกสารใม่ควบคุม ใช้ในการจัดซื้อ

Prepared by: Reviewed by: Approved by: Eff. Date J. Noppadech, 29/05/15 19/06/15 Head of Raw Material Director of Raw Material Director of Regulatory Compliance Director of Quality Assurance Standard Section 2 Standard Division and Documentation Division Department



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Product Information

Approved source (s)	Refer to current version of Approved Supplier List of Sodium Carboxymethylcellulose USP (Item No. 41023680).
Sampling plan	$1+\sqrt{N}$ plan.
Testing procedure	Tests to be performed as per current version of WI-AK30-S010.
Storage condition	Store at a condition stated on the label from the manufacturer or preserve in tight containers.
Retest period	2 years after first testing date.

History of changes

Rev. No.	Description	Reviewed by	Effective Date
01	ประกาศใช้ครั้งแรก (USP 23 และ GPO Specification)	ผอก. มาตรฐานวัตถุดิบ	21/04/00
02	Update ข้อกำหนดตาม USP 32 (เพิ่มการทดสอบ Viscosity และ Particle size distribution estimation by analytical sieving อ้างอิง ตาม GPO Specification)	ผอก. มาตรฐานวัตถุดิบ	19/04/10
03	Update ข้อกำหนดตาม USP 37 (การทดสอบ Viscosity และ Particle size distribution estimation by analytical sieving อ้างอิง ตาม GPO Specification)	ผอก. มาตรฐานวัตถุดิบ เอกสารไม่ค	19/06/15

ใช้ในการจัดซื้อ

Prepared by:	Reviewed by:		Approved by :	Eff. Date
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