

Document No.RPP-SP-QC-RM-108: SPECIFICATION OF MANNITOL (PEARLITOL 25C) (ITEM NO. 44121680) Rev.01 Eff.Date 17 Oct 2020



The Government Pharmaceutical Organization Rangsit Pharmaceutical Production Plant

DOCU	MENT NUMBER:	RPP-SP-QC-RM-108
DOCU	MENT TITLE:	SPECIFICATION OF MANNITOL (PEARLITOL 25C) (ITEM NO. 44121680)
	MENT NOTES:	
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Author:	NATTAPORN_F	Previous Number:
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THE GOVERNMENT PHARMACEUTICAL ORGANIZATION RANGSIT PHARMACEUTICAL PRODUCTION PLANT			
TITLE	SPECIFICATION OF MANNITOL (PEARLITOL 25C) (ITEM NO. 44121680)	Rev. 01	
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REVISION HISTORY

Rev.No.	Change & Reason For Change	Effective Date
01	Initial Release (Change-20-090)	As per effective date in electronic system
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A. Specification

No.	Test parameters	Specifications	
01	Description	White, crystalline powder or free-flowing granules, odorless.	
02	Solubility	Freely soluble in water, soluble in alkaline solutions; slightly soluble in pyridine, very slightly soluble in alcohol; practically insoluble in ether.	
03	Identification	The IR absorption spectrum of sample preparation exhibits maxima at the same wavelengths as that of Mannitol reference standard preparation.	
04	Assay	Not less than 97.0% and not more than 102.0% of Mannitol (C ₆ H ₁₄ O ₆), calculated on the dried basis.	
05	Related substances		
	a. Sorbitol	Not more than 2.0%.	
	b. Sum of isomalt and maltitol	Not more than 2.0%.	
	c. Unspecified impurities	Not more than 0.10% for each impurity.	
	d. Total impurities	Not more than 2.0%.	
06	Reducing sugars	Not more than 0.1%, expressed as glucose; Not more than 3.2 ml of 0.02 M potassium permanganate VS is required to change the color of the solution. The green colors turns to pink, and the color persists at least 10 s.	
07	Nickel	Not more than 1 μg/g.	
08	Melting range or temperature	165°C- 170°C.	
09	Appearance of solution	The sample solution is clear and colorless: its clarity is the same as that of water, or its opalescence is not more pronounced than that of the Reference suspension, and it is not more intensely colored than the Standard solution.	
10	Loss on drying	Not more than 0.5 %.	
11	Conductivity	Not more than 20 μS/cm at 25°C.	
12	Microbial enumeration tests and tests for specified microorganisms a. Total aerobic microbial count (TAMC) b. Total combined molds and yeasts count (TMYC)	Not more than 10^3 cfu/g. Not more than 10^2 cfu/g.	
	c. Escherichia coli	Absence (1 g).	
13	Particle size (By Laser diffraction) *	d (0.5): 15 – 35 um	
		d (0.9): Not more than 75 um	

^{*}According to GPO-In house Specification



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B. Packaging and Storage Preserve in well-closed containers.

C. Reference

USP 42/NF37, Mannitol monograph, page 2686-2688.

D. Product Information

Approved source (s)	Refer to current version of Approved Vendor List (AVL) of MANNITOL (PEARLITOL 25C) (ITEM NO. 44121680).
Sampling plan	Identification: Every container.
	Other tests : $\sqrt{N} + 1$.
Testing procedure	Test to be performed as per current version of Standard Testing Procedure of MANNITOL (PEARLITOL 25C) (ITEM NO. 44121680).
Retest period	1 year.

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All dates and times are in GMT +7.

Signature Manifest

RMS_MANNITOL (PEARLITOL 25C) (ITEM NO. 44121680)

Step 1. Preparer

Name/Signature	Title	Date	Meaning/Reason
NATTAPORN RUANSON (NATTAPORN_R)	HEAD OF QC SECTION 1	15 Oct 2020, 07:10:29 PM	Complete

Step 2. Reviewer

Name/Signature	Title	Date	Meaning/Reason
NOPPAWAN ANGKULSANSANEE (NOPPAWAN_A)	DIRECTOR OF COMP Q SYS DIV.	15 Oct 2020, 08:07:20 PM	Approved
SUTAN OTAMO (SUTAN_O)	DIRECTOR OF QC DIVISION	16 Oct 2020, 06:31:48 AM	Approved
SIVINEE WATTITHAM (SIVINEE_W)	DIRECTOR OF VALIDATION DIV.	16 Oct 2020, 10:25:15 AM	Approved

Step 3. Approver

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Name/Signature	Title	Date	Meaning/Reason
WILAK VANGKANONTA (WILAK_V)	QA MANAGER	17 Oct 2020, 10:47:08 AM	Approved

Step 4. Notify

Name/Signature	Title	Date	Meaning/Reason
DONNAPA PUEKWATTANA (DONNAPA_P)	QA-IT&Doc	17 Oct 2020, 10:47:08 AM	Email Sent
SIRILUK BUACHAROEN (SIRILUK_B)	HEAD OF IT QUALITY AND DOC SEC	17 Oct 2020, 10:47:08 AM	Email Sent
SUTHASINEE PENGSRI (SUTHASINEE_P)	QA IT&Doc	17 Oct 2020, 10:47:08 AM	Email Sent
TASSANA PRAWISAT (TASSANA_P)	QA IT&Doc	17 Oct 2020, 10:47:08 AM	Email Sent
WEERAYA KONGPAKPIEN (WEERAYA_K)	QA IT&Doc	17 Oct 2020, 10:47:08 AM	Email Sent
WIMWIPA CHAWENGPAKDEEWET (WIMWIPA_C)	QA IT&Doc	17 Oct 2020, 10:47:08 AM	Email Sent
WITCHAYA KOSAWANG (WITCHAYA_K)	QA IT&Doc	17 Oct 2020, 10:47:08 AM	Email Sent