

THE GOVERNMENT PHARMACEUTICAL ORGANIZATION

RAW MATERIAL SPECIFICATION

Title: Diluted Isosorbide-5-mononitrate BP (40% in Lactose)

Spec. No.

: SP-AK30-I30

(Item No. 41010515)

Rev. No.

: 04

Reference(s): BP 2017 p. I-1312 to I-1314

Other Requirements: GPO Specification

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BP 2017

Test Items	Specification		
Description	A white or almost white, crystalline powder.		
Identification A: Infrared absorption spectrophotmetry	Conforms to IR standard spectrum.		
B : Thin-layer chromatography	position, colour and size to the principal spot in the chromatogram obtained with reference solution (a) for lactose.		
C: Melting point	Between 89 °C to 91 °C.		
Impurity A (TLC)	Any spot due to impurity A is not more intense than the principal spot in the chromatogr obtained with the reference solution (0.5%, calculated as potassium nitrate).		
Impurities B and C (HPLC)	Impurity B (Isosorbide dinitrate)	: Not more than 0.5% w/w.	
	Impurity C (Isosorbide-2-nitrate)	: Not more than 0.5% w/w.	
Assay	95.0 – 105.0% w/w of the content of 1,4: 3,6-dianhydro-D-glucitol 5-nitrate stated on the labeled (equivalent to 38.0-42.0% w/w of C ₆ H ₉ NO ₆).		

Prepared by:	Reviewed by :		Approved by :	Eff. Date
Suvannee, 31/01/19	S. Fantithanieral, 37/01/19	VARIFIN, 31/01/18	Rungungrej, 05/02/18	01/04/18
Head of Raw Material	Director of Raw Material	Director of Regulatory Compliance	Director of Quality Assurance	
Standard Section 1	Standard Division	and Documentation Division	Department (Hehing)	1 1 0



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GPO Specification

Test Items	Specification		
Particle size			
- Laser diffraction, Malvern			
d(0.9)	: Not more than 300 μm .		

Method Parameters for Particle size Analysis using Malvern Mastersizer 2000.

No.	Parameter	Specification Dry Dispersion (Air pressure 3 bar).	
1	Condition		
2	Absorption	0.1 (For slightly coloured powders).	
3	Particle refractive index	1.520 (For organic compounds).	
4	Weighted residual	< 2%.	
5	Obscuration	1-3%.	
6	Analysis model	General purpose.	
7	Particle shape	Irregular-particles have angular shapes (default).	
8	Measurement integration time	≥ 3000 ms/ sample and measure 10 times/ sample.	
9	Measurement background time	≥ 10 seconds.	
10	Result units	Volume.	

	Prepared by:	Reviewed by:		Approved by:	Eff. Date
	Suwamee, 31/01/18	S. Tartishancenal, 37/01/19		Rungrongrej / 05/02/18	01/04/18
	Head of Raw Material	Director of Raw Material	Director of Regulatory Compliance	Director of Quality Assurance	-
٠,	Standard Section 1	Standard Division	and Documentation Division	Department (Athing)	1,000



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Product Information

Approved source (s) Refer to current version of Approved Vendor List of Diluted Isosorbide-5-mononitrat in Lactose) (Item No. 41010515).		
Sampling plan	P plan : for Identification. $\sqrt{N} + 1$: for other tests.	
Testing procedure	Tests to be performed as per current version of WI-AK30-I30.	
Storage condition	Protected from light.	
Retest period	1 year after first testing date.	

History of changes

Rev. No.	Description	Effective date
02	Update spec. เป็น BP 2013	31/10/14
03	ปรับขยาย spec. ค่า d(0.9) จาก NMT 250 μm เป็น NMT 300 μm ได้รับการอนุมัติตาม CR No. 58380	30/10/15
04	เอกสารมีอายุครบ 3 ปี จึงต้องทบทวน โดยเนื้อหาของ BP 2017 และ BP 2013 เหมือนกัน	01/04/2018

Prepared by:	Reviewed by:		Approved by:	Eff. Date]
Surannee, 31/01/18	S. Tantithanecnat ,31101118	VARIFIN , 31/01/18	Vichian Rungungrej , 05/02/18	01/04/18	
Head of Raw Material	Director of Raw Material	Director of Regulatory Compliance	Director of Quality Assurance		1
Standard Section 1	Standard Division	and Documentation Division	Department (Aching)	- L -v	1