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THE GOVERNMENT PHARMACEUTICAL ORGANIZATION

RAW MATERIAL SPECIFICATION

Title: Amitriptyline Hydrochloride USP (Item No. 41010090)

Spec. No.

: SP-AK30-A26

Reference(s): USP 39 p. 2494-2496

Rev. No.

: 05

Other Requirements: GPO specification

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USP 39

Test Items	Specification		
Description	White or practically white, odorless or practically odorless, crystalline powder.		
Solubility	Freely soluble in water, in alcohol, in chloroform and in methanol; insoluble in ether.		
Identification			
A. Infrared Absorption (197K)	The IR absorption spectrum of sample exl	nibits the same spectrum as Reference Standard.	
B. HPLC	The retention time of the major peak of the Sample solution corresponds to that of the		
	Standard solution, as obtained in the Assa	y.	
C. Chloride Test	-Add one drop of diluted nitric acid and 0	.5 ml of silver nitrate TS to a solution of 20 mg of	
•	sample in 2 ml of water; a white curdy precipitate is formed. Centrifuge the mixture		
	without delay and decant the supernatant	layer. Wash the precipitate with three 1-ml	
	portions of nitric acid solution (1 in 100),	and discard the washings. Add ammonia TS	
	dropwise to this precipitate. It dissolves readily.		
pН	Between 5.0 and 6.0, in a solution (1 in 100).		
Loss on drying	Not more than 0.5%.		
Residue on ignition	Not more than 0.1%.		
Heavy metals	Not more than 10 ppm, Method II.		
Organic impurities	Amitriptyline related compound A	: Not more than 0.05%.	
	Amitriptyline related compound B	: Not more than 0.15%.	
	Nortriptyline	: Not more than 0.15%.	
	Cyclobenzaprine	: Not more than 0.15%.	
	Any individual unspecified impurity	: Not more than 0.10%.	
	Total impurities	: Not more than 1.0%.	
Assay	98.0% to 102.0% of amitriptyline hydroch	nloride (C ₂₀ H ₂₃ N.HCl), calculated on the dried	
	basis.		

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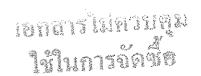
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GPO Specification

Test Items	Specification	
Particle size		
- Laser diffraction, Malvern		
d (0.9)	70-180 μm.	

Method Parameters for Particle Size Analysis Malvern Mastersizer 2000

No.	Parameter	Specification
1	Condition	Dry Dispersion (Air pressure 2.5-3.5 bar).
2	Absorption	0.1 (For slightly colored powders).
3	Particle Refractive Index (RI)	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 20 times/ sample.
9	Measurement Background Time	≥ 10 seconds.
10	Result Units	Volume.



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Product Information

Refer to current version of Approved Vendor List of Amitriptyline Hydrochloride USP (Item No. 41010090).
P plan : for Identification.
$\sqrt{N}+1$: for other tests.
Tests to be performed as per current version of WI-AK30-A26.
Preserve in well-closed containers.
1 year after first testing date.

History of changes

Rev. No.	Description	Effective date
04 05	Description Update spec. เป็น USP 34 อ้างอิง CR No. AN80-60061 Update spec. เป็น USP 39 โดยเนื้อหาของ USP 34 และ USP 39 เหมือนกัน เพื่อใช้ สำหรับคำรับยา E-bidding และให้สอดคล้องกับ FP spec. โดยต้องอ้างอิงไม่ค่ำกว่า USP 35	20/03/15 27/07/17

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