



COPY No. 3

THE GOVERNMENT PHARMACEUTICAL ORGANIZATION

RAW MATERIAL SPECIFICATION

Title : Atropine Sulfate USP (Item No. 41030420)	Spec. No. : SP-AK30-A003
Reference(s) : USP 41 p. 405 - 406	Rev. No. : 07
Other Requirements : -	Page : 1/2

USP 41

Test Parameters	Specifications																		
Description	White, crystalline powder, odorless.																		
Solubility	Very soluble in water; freely soluble in alcohol and even more so in boiling alcohol; freely soluble in glycerin.																		
Identification A. Infrared absorption <197K> B. Sulfate C. HPLC	Conforms to FT-IR standard spectrum. 1. With barium chloride TS, solutions of sulfates yield a white precipitate that is insoluble in hydrochloric acid and in nitric acid. 2. With lead acetate TS, neutral solutions of sulfates yield a white precipitate that is soluble in ammonium acetate TS. 3. Hydrochloric acid produces no precipitate when added to solutions of sulfates (distinction from thiosulfates). The retention time of the major peak in the Sample solution corresponds to that of the System suitability solution, as obtained in the Assay.																		
Optical rotation	Between -0.50° and $+0.05^{\circ}$.																		
Water	Not more than 4.0%.																		
Residue on ignition	Not more than 0.2%.																		
Organic impurities	<table><tr><td>Tropic acid</td><td>: Not more than 0.2%.</td></tr><tr><td>7-Hydroxyhyoscyamine</td><td>: Not more than 0.2%.</td></tr><tr><td>Scopolamine</td><td>: Not more than 0.2%.</td></tr><tr><td>6-Hydroxyhyoscyamine</td><td>: Not more than 0.2%.</td></tr><tr><td>Hyoscyamine related compound A</td><td>: Not more than 0.3%.</td></tr><tr><td>Littorine</td><td>: Not more than 0.2%.</td></tr><tr><td>Apoatropine</td><td>: Not more than 0.2%.</td></tr><tr><td>Any individual, unspecified impurity</td><td>: Not more than 0.1%.</td></tr><tr><td>Total impurities</td><td>: Not more than 0.5%.</td></tr></table>	Tropic acid	: Not more than 0.2%.	7-Hydroxyhyoscyamine	: Not more than 0.2%.	Scopolamine	: Not more than 0.2%.	6-Hydroxyhyoscyamine	: Not more than 0.2%.	Hyoscyamine related compound A	: Not more than 0.3%.	Littorine	: Not more than 0.2%.	Apoatropine	: Not more than 0.2%.	Any individual, unspecified impurity	: Not more than 0.1%.	Total impurities	: Not more than 0.5%.
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Any individual, unspecified impurity	: Not more than 0.1%.																		
Total impurities	: Not more than 0.5%.																		
Assay	98.0 – 102.0% of Atropine sulfate ($C_{17}H_{23}NO_3$) $_2 \cdot H_2SO_4$, calculated on the anhydrous basis.																		

Prepared by : Sunannee 19107/19 Head of Raw Material Standard Section I	Reviewed by : Tarnwut Limwong 26109/19 Director of Raw Material Standard Division	Approved by : Wichit Ruengwongroj 30107/19 Director of Quality Assurance Department Acting ใช้ในการควบคุม	Eff. Date 30/10/19
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ใช้ในการจัดซื้อ



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Product Information

Approved source (s)	Refer to current version of Approved Vendor List of Atropine Sulfate USP (Item No. 41030420).
Sampling plan	1. N Plan ($\sqrt{N} + 1$) : for other tests. 2. 100% Identification.
Testing procedure	Tests to be performed as per current version of WI-AK30-A003.
Storage condition	Preserve in tight, light-resistant containers.
Retest period	1 year after first testing date.

History of changes

Rev. No.	Description	Effective date
05	อ้างอิง spec. เป็น USP 34	15/02/12
06	Update spec. เป็น USP 38 อ้างอิง CR No. AN80-59082	24/05/16
07	Update spec. เป็น USP 41 ตามประกาศกระทรวงสาธารณสุข เรื่องระบุตำรา พ.ศ. 2561 โดยให้ใช้ตำรายาฉบับ USP 39/BP 2016 ขึ้นไป นอกจากนี้เนื่องจากเอกสารมีอายุครบ 3 ปี จึงต้องทบทวน โดยเนื้อหาของ USP 38 และ USP 41 เหมือนกัน	30/10/19

เอกสารไม่ควบคุม

ใช้ในการจัดซื้อ

Prepared by : Suntanee / 19/07/19 Head of Raw Material Standard Section I	Reviewed by : Tammw / 26/07/19 Director of Raw Material Standard Division	Approved by : Vichin Rungvongroj / 30/07/19 Director of Quality Assurance Department Aohitap	Eff. Date 30/10/19
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