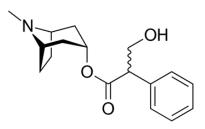


Atropine Base EP

Technical data sheet

Atropine Base EP (European Pharmacopoeia)

Atropine is a well-known tropane alkaloid muscarinic antagonist used to treat poisoning by certain nerve agents, including organophosphates and other drugs. This anticholinergic medication is also used to treat some heart rate conditions, and to decrease saliva production during surgery. It is typically given intravenously or by injection into a muscle. The alkaloid, originally from *Atropa belladonna*, but found in other plants of the Solanaceae family (*Duboisia*, *Datura* & *Hyoscyamus*).



Formula: C₁₇H₂₃NO₃ Mol. weight: 289.37

Batch release specifications

Test	Specifi	Specification		
Description	White or almost white, crystalline powder or colourless crystals		Current EP	
Identification A	Melting point: 115 °C to 119 °C		Current EP	
Identification B	I.R. spectrum corresponds to reference spectrum		Current EP	
Identification E	-0.70° to +0.05°		Current EP	
Optical rotation	-0.70° to +0.05°		Current EP	
Related substances (HPLC)	A: Apoatropine B: Noratropine C: Tropic acid D: 6-hydroxyhyoscyamine E: 7-hydroxyhyoscyamine F: Hyoscine G: Littorine H: Unknown structure Other impurity Total	NMT 0.2% NMT 0.2% NMT 0.2% NMT 0.3% NMT 0.2% NMT 0.2% NMT 0.2% NMT 0.3% NMT 0.10% NMT 0.5%	Current EP	
Loss on drying	NMT	NMT 0.2%		
Assay	99.0% -	99.0% - 101.0%		
Residual solvents	Chloroform < 60 ppm Acetone < 5000 ppm		Current EP	

This product has been manufactured according to the ICH GMP Guide for APIs

Phytex is a member company of the Active Pharmaceutical Ingredient Manufacturers Association of Australia and a current Silver Status provider of USP reference standard material distributed under the Donor Recognition Program.



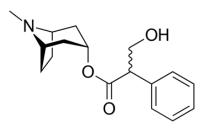


Atropine Base USP

Technical data sheet

Atropine Base USP (United States Pharmacopeia specification)

Atropine is a well-known tropane alkaloid muscarinic antagonist used to treat poisoning by certain nerve agents, including organophosphates and other drugs. This anticholinergic medication is also used to treat some heart rate conditions, and to decrease saliva production during surgery. It is typically given intravenously or by injection into a muscle. The alkaloid, originally from *Atropa belladonna*, but found in other plants of the Solanaceae family (*Duboisia*, *Datura* & *Hyoscyamus*).



Formula: C₁₇H₂₃NO₃ Mol. weight: 289.37

Batch release specifications

Test	Specifi	Method	
Description	White, crystalline powder, colourless		Current USP
Identification A	The IR absorption spectrum, determined in a 1-mm cell of solution of the sample exhibits maxima only at the same wavelengths as that of the solution of the standard.		Current USP
Identification B	A lusterless precipitate is formed		Current USP
Assay	99.0% - 100.5%		Current USP
Organic impurities (HPLC)	A: Apoatropine B: Noratropine C: Tropic acid D: 6-hydroxyhyoscyamine E: 7-hydroxyhyoscyamine F: Hyoscine G: Littorine Other impurity Total	NMT 0.2% NMT 0.2% NMT 0.2% NMT 0.3% NMT 0.2% NMT 0.2% NMT 0.10% NMT 0.5%	In-house quantitative HPLC validation
Impurities: Organic impurities (TLC)	Foreign alkaloids and other impurities	NMT 0.2%	Current USP
Impurities: Residue on ignition	NMT 0.1%		Current USP
Residual solvents	Chloroform < 60 ppm Acetone < 5000 ppm		Current USP
Optical rotation	-0.70° to +0.05°		Current USP

Continues to page 2





Atropine Base USP

Technical data sheet

Batch release specifications continued

Test	Specification	Method		
Readily carbonisable substances test	Meets the requirements	Current USP		
Water determination	NMT 0.2%	Current USP		
Melting temperature	114°C to to 118°C	Current USP		
Quantitate filter test (Phytex only)	NMT 0.1% residue No particles observed different to blank	SPEC .610 Phytex		
This product has been manufactured according to the ICH GMP Guide for APIs				

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