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### QUALITY CONTROL

Doc. No.	NDQC-SP80-BAI	Rev No.	02	Copy No.	
<b>TITLE</b>	<b>SPECIFICATION OF BENZETHONIUM CHLORIDE USP</b>				
Effective Date	1 <sup>st</sup> April, 2010		Review Date	March, 2013	
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Sr. No.	Test	Specification
1.	Description	White crystals, having a mild odor. Its solution (1 in 100) is slightly alkaline to litmus.
2.	Solubility	Soluble in water, in alcohol and in chloroform; slightly soluble in ether.
3.	Identification	
	A. Chloride	A white precipitate, which is insoluble in 2N nitric acid but soluble in 6 N ammonium hydroxide, is formed.
	B.	Precipitate produced with 2 N nitric acid and mercuric chloride TS, which is dissolved upon the addition of alcohol.
	C. Amine group test	The solution turns orange-red, and a brown precipitate may be formed.
4.	Melting range (After drying)	Between 158°C - 163 °C
5.	Loss on drying (at 105 °C, 4 hours.)	Not more than 5.0 % w/w
6.	Residue on ignition	Not more than 0.1 % w/w
7.	Limit of ammonium compounds	The odor of ammonia is not perceptible.
8.	Assay (on dried basis)	Not less than 97.0 % w/w and Not more than 103.0 % w/w