

CERTIFICATE OF ANALYSIS
(Working Standard)

- 2 JUL 2015

Name of the sample	Benzalkonium Chloride Solution 50%
Lot Number	WS/B-02.19
Date of analysis	Dec 26, 2014
Date of retest	Dec 26, 2015

Sr. No.	Test(s)	Specification(s)	Result(s)
01.	Description	Clear colourless or slightly yellow, syrupy liquid, odour, aromatic.	Clear colourless syrupy liquid, odour, aromatic. Complies
02.	Solubility	Miscible with water, and with ethanol (95%).	Complies
03.	Identification A. Precipitation reaction B. Colour reaction C. Reaction of chlorides	A white precipitate is formed which is soluble in ethanol (95%). A white precipitate is produced on addition of mercuric chloride solution which is soluble in ethanol (95%). An orange-red colour is produced. A curdy white precipitate is formed which is insoluble in nitric acid but soluble, after being well washed with water, in dilute ammonia solution. It is reprecipitated by the addition of dilute nitric acid.	Positive Positive Positive Positive
04.	Acidity or alkalinity	Not more than 0.1 mL of 0.1M sodium hydroxide is required.	0.05 mL of 0.1M sodium hydroxide is required.
05.	Ammonia compounds	No odour of ammonia is produced.	Complies
06.	Foreign compounds	No precipitate is formed. The odour of amine is not perceptible on boiling.	Complies
07.	Assay	Not less than 49.0% w/v and not more than 51.0% w/v of alkybenzyltrimethylammonium chlorides, calculated as $C_{22}H_{40}ClN$.	49.9%

Remarks : The Working standard of Benzalkonium Chloride Solution 50% WS/B-02.19, complies as per In-house specification.

Prepared By Analyst Jayashree Ghatkar <i>JGG</i> Date: Dec 26, 2014	Checked By Sr. Executive Rajesh Topiwala <i>Rt</i> Date: Dec 26, 2014	Approved By Sr. General Manager Dr. Dhanraj Amin <i>Dhanraj Amin</i> Date: Dec 26, 2014
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AJANTA PHARMA LIMITED
MUMBAI
AUTHORIZED C. O. A.
Sign :- *[Signature]*
Date :- May 18, 2015

[Signature]