

Certificate of Analysis

CHLORURE DE BETHANECHOL

Lot Number: 18164073
 Product Code: BETHANECHOL CHLORIDE
 Product Grade: STANDARD
 Reference:

ANALYTICAL TESTS	SPECIFICATIONS	RESULTS
DESCRIPTION	white powder	Complies
IDENTIFICATION IR	complies with reference	Complies
IDENTIFICATION	emerald-green color entirely fades after 5 to 10 min	Complies
	brown to dark olive-green precipitate with iodine	Complies
IDENTIFICATION IC	positive chloride test	Complies
DSC	RT complies with reference 224 - 234 °C	Complies 229 °C
pH	5.5 - 6.5 (1 % aqueous solution)	5.6
LOSS ON DRYING	max. 1.0 %	0.1 %
PARTICLES SIZE	D 90 % : max. 150 µm D 50 % : max. 45 µm	102 µm 32 µm
ASSAY	17.7 - 18.3 % Cl	17.9 %
RESIDUE ON IGNITION	max. 0.1 %	0.0 %
HEAVY METALS	max. 20 ppm	Complies
ASSAY (IC)	98.0 - 101.5 %	100.2 %
IMPURITIES (IC)	2-Hydroxypropyltrimethylammonium Chloride: max. 0.3 %	N/D
	Ammonium Chloride: max. 0.1 %	N/D
	Trimethylammonium Chloride: max. 0.1 %	N/D
	any other impurity: max. 0.10 %	N/D
	total of impurities: max. 0.5 %	N/D
RESIDUAL SOLVENTS	Ethanol: max. 3000 ppm Isopropanol: max. 500 ppm Dichloromethane: max. 500 ppm	1625 ppm 139 ppm 146 ppm
ASSAY (IC) (II)	98.0 - 101.5 % (on dried substance)	99.4 %
IMPURITIES (IC) (II)	Ammonium chloride: max. 0.1 % Trimethylammonium chloride: max. 0.1 %	0.0 % N/D

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2-Hydroxypropyltrimethylammonium	N/D
chloride: max. 0.15 %	
any other impurity: max. 0.10 %	N/D
sum of impurities: max. 0.5 %	N/D

Reference:
USP

Analytical number : 69669
Date of manufacture : (YYYY-MM-DD) 2018-04-28
Date of analysis : (YYYY-MM-DD) 2018-04-27
Date of retest : (YYYY-MM-DD) 2022-04-27

Released by : LAGE ANNE
Released date : (YYYY-MM-DD) 2018-06-15

Conclusion : Complies

Manufacturer : SIEGFRIED Evionnaz SA
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