

Plot No.1 & 86, Sursez, Diamond Park, Sachin, Surat, Gujarat, India.

Certificate of Analysis

J.					
Product Name	Chlorhexidine Gluconate 20 % Solution (BPR/Excipient grade)				
Reference	USP/EP/BP Inspection Lot 4000004289				
Batch No.	CGX2025003	Batch Size	8000.00 Kg.		
Mfg. Date	03/01/2025 Exp. Date 02/01/2028				
Release Date	08/01/2025				

Section-A: Chemical testing

Sr. No.	Tests	Specification	Reference	Results
1.	Description	Almost colorless or pale yellowish, clear liquid.	USP/EP/BP	Complies
2.	Solubility	Miscible with glacial acetic acid and with water; miscible with three times its volume of acetone and with five times its volume of dehydrated alcohol; further addition of acetone or dehydrated alcohol yields a white turbidity.	USP	Complies
		Miscible with water, with not more than 3 parts of acetone and with not more than 5 parts of ethanol (96%).	EP/BP	Complies
	IDENTIFICATION:			
3.	A. IR	The IR Spectrum obtained with sample should correspond with that of standard.	USP/EP/BP	Complies
	B. Thin Layer Chromatography	The principal spot in the chromatogram obtained with the test solution should be similar in position, colour and size to the principal spot in the chromatogram obtained with the reference solution.	USP/EP/BP	Complies
	C. Residual melting point	132°C to 136°C.	EP/BP	132.8°C
	D. Chemical Test	A deep red color should be produced.	EP/BP	Complies

	PREPARED BY	CHECKED BY	APPROVED BY
NAME	Mr. Jignesh Patel	Mr. Prakash Patel	Mr. Sohail Shaikh
DESIGNATION	Sr. Executive QC	Manager QC	Manager QA
SIGNATURE	-2	-fre	A.S.
DATE	08/01/2028	08/01/2015	09/01/2025



Plot No.1 & 86, Sursez, Diamond Park, Sachin, Surat, Gujarat, India.

# **Certificate of Analysis**

Product Name	Chlorhexidine Gluconate 20 % Solution (BPR/Excipient grade)USP/EP/BPInspection Lot40000004289			
Reference				
Batch No.	CGX2025003	Batch Size	8000.00 Kg.	
Mfg. Date	03/01/2025	Exp. Date	02/01/2028	
Release Date	08/01/2025			

Sr. No.	Tests	Specification	Reference	Results
4.	Specific gravity/ Relative density	1.06 to 1.07	USP/EP/BP	1.066
5.	pH(5% v/v)	5.5 to 7.0	USP/EP/BP	6.57
	Organic impurities (Related substa	nces)		
	Chlorhexidineoxazinoneanalog (Impurity L)	NMT 0.2 %	USP/EP/BP	BDL
	Specified unidentifiedimpurity 1 (Impurity Q)	NMT 0.2 %	USP/EP/BP	0.07 %
	Chlorhexidine amine (Impurity G)	NMT 0.3 %	USP/EP/BP	BDL
	Chlorhexidine guanidine (Impurity N)	NMT 1.0 %	USP/EP/BP	0.09 %
	Chlorhexidine urea (Impurity B)	NMT 0.2 %	USP/EP/BP	BDL
6.	p-Chlorophenyl urea (Impurity F)	NMT 0.2 %	USP/EP/BP	ND
13	Chlorhexidine nitrile (Impurity A)	NMT 0.4 %	USP/EP/BP	BDL
	Chlorhexidine dimer (Impurity H)	NMT 0.5 %	USP/EP/BP	0.22 %
	o- Chlorhexidineandspecifiedunidenti fiedimpurity 2 (Sum of Impurity I & O)	NMT 0.4 %	USP/EP/BP	0.11 %
	Chlorhexidineglucityl Triazine (Impurity J)	NMT 0.4 %	USP/EP/BP	BDL
	Chlorhexidine	-	USP/EP/BP	
	Oxochlorhexidine (Impurity K)	NMT 0.4 %	USP/EP/BP	BDL

	PREPARED BY	CHECKED BY	APPROVED BY
NAME	Mr. Jignesh Patel	Mr. Prakash Patel	Mr. Sohail Shaikh
DESIGNATION	Sr. Executive QC	Manager QC	Manager QA
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Plot No.1 & 86, Sursez, Diamond Park, Sachin, Surat, Gujarat, India.

### **Certificate of Analysis**

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Product Name	Chlorhexidine Gluco	Chlorhexidine Gluconate 20 % Solution (BPR/Excipient grade)				
Reference	USP/EP/BP	USP/EP/BP Inspection Lot 4000004289				
Batch No.	CGX2025003	Batch Size	8000.00 Kg.			
Mfg. Date	03/01/2025	Exp. Date	02/01/2028			
Release Date	08/01/2025					

Sr. No.	Tests	Specification	Reference	Results		
	Any individual unspecified impurity	NMT 0.10 %	USP/EP/BP	BDL		
	Total impurities	NMT 3.0 %	USP/EP/BP	0.49 %		
7.	p –Chloroaniline	Not more than 500 ppm	USP	7.71 ppm		
0	A	NLT 19.0 % (w/v) and NMT 21.0 % (w/v)	USP	20.23 % w/v		
8.	8. Assay	NLT 190 g/L and NMT 210 g/L	EP/BP	201.5 g/L		
Resi	Residual Solvent					
9.	Methanol	Not more than 3000 ppm	Inhouse	99 ppm		
10.	Butanol	Not more than 5000 ppm	Inhouse	73 ppm		
11.	Colour absorbance test by UV at 480nm	NMT 0.05	Inhouse	0.015		

BDL= below disregard limit; ND= Not detected

If present, o-chlorhexidine and specified unidentified impurity 2 may not be completely resolved by the method. These peaks are integrated together to determine conformance.

**Report:** In the opinion of the undersigned, the above batch complies with the standards of specifications Mentioned under current monographs of USP/EP/BP

	PREPARED BY	CHECKED BY	APPROVED BY
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DESIGNATION	Sr. Executive QC	Manager QC	Manager QA
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DATE	08/01/2022	04101120rs	C150 09/01/2025



Plot No.1 & 86, Sursez, Diamond Park, Sachin, Surat, Gujarat, India.

### Certificate of Analysis

Product Name	Chlorhexidine Gluconate 20 % Solution			
Reference	In house <b>AR. No.</b> MT/I/25/0004			
Batch No.	CGX2025003 Batch Size 8000.00 Kg		8000.00 Kg	
Mfg. Date	03/01/2025 Exp. Date 02/01/2028			
Release Date	11/01/2025			

### Section-B: Microbial testing

Sr. No.	Tests	Specification	Reference	Results
	Microbial Enumeration Test			
1.	A. Total aerobic microbial count	NMT 10 <sup>2</sup> CFU/mL	In house	Nil
	B. Total yeasts and molds count	NMT 10 <sup>2</sup> CFU/mL	In house	Nil
-	C. Other specific micro Organisms (S. aureus, P, aeruginosa, E. coli, Salmonella spp., B. cepacia, S. marcescens)	Should be Absent/10 mL	In house	Absent/10 mL

**Note:** The batch is released based on chemical analysis reported in Section - A, on completion of microbial tests results are reported in this Section -B.

Report: In the opinion of the undersigned, the above batch complies with the Current In house Specification.

8	PREPARED BY	CHECKED BY	APPROVED BY
NAME	Mr. Akash Dhangar	Mr. Prakash Patel	Mr. Sohail Shaikh
DESIGNATION	Sr. Executive - MB	Manager - QC	Manager - QA
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DATE	1110112025	11/01/2015	11/01/2125