

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

Certificate of Analysis

Product Name	Chlorhexidine Gluconate 20 % Solution (Pharma Grade)			
Reference	USP/EP/BP -	AR. No.	FP/I/22/0377	
Batch No.	CGP2022251-	Batch Size	8000 Kg.	
Mfg. Date	30/09/2022 -	Exp. Date	29/09/2025 —	
Release Date	06/10/2022	C\$60061A3		

Section-A: Chemical testing

Sr. No.	Tests	Specification	Reference	Results	
1.	Description	Almost colorless or pale yellowish, clear liquid.	USP/EP/BP	A clear colorless liquid	
2.	Miscible with glacial acetic a with water; miscible with thre its volume of acetone and w times its volume of deh		USP	Complies	
	98950380	Miscible with water, with not more than 3 parts of acetone and with not more than 5 parts of ethanol (96%).	EP/BP	Complies	
10	IDENTIFICATION:	V. C.O. TAM.	Clair		
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	134.3°C	
	D. Chemical Test	A deep red color should be produced.	EP/BP	Complies	
4.	Specific gravity/ Relative density	1.06 to 1.07	USP/EP/BP	1.064	
5.	pH(5% v/v)	5.5 to 7.0	USP/EP/BP	6.37	

APPRODUCED &	PREPARED BY	CHECKED BY	APPROVED BY
NAME	Mr. Bhargav Patel	Mr. Vimal Patel	Mr. Sohail Shaikh
DESIGNATION	Officer QC	Manager QC	Manager QA
SIGNATURE	B.	() Jessey	(14.5
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Mfg. Date	30/09/2022	Exp. Date	29/09/2025	
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Sr. No.	Tests	Specification	Reference	Results
	Organic impurities (Related substan	ices)		
	Chlorhexidineoxazinoneanalog (Impurity L)	NMT 0.2 %	USP/EP/BP	BDL
	Specified unidentifiedimpurity 1 (Impurity Q)	NMT 0.2 %	USP/EP/BP	0.08 %
	Chlorhexidine amine (Impurity G)	NMT 0.3 %	USP/EP/BP	BDL
	Chlorhexidine guanidine (Impurity N)	NMT 1.0 %	USP/EP/BP	0.11 %
	Chlorhexidine urea (Impurity B)	NMT 0.2 %	USP/EP/BP	0.05 %
	p-Chlorophenyl urea (Impurity F)	NMT 0.2 %	USP/EP/BP	BDL
	Chlorhexidine nitrile (Impurity A)	NMT 0.4 %	USP/EP/BP	BDL
	Chlorhexidine dimer (Impurity H)	NMT 0.5 %	USP/EP/BP	0.17 %
	o- Chlorhexidineandspecifiedunid entifiedimpurity 2 (Sum of Impurity I & O)	NMT 0.4 %	USP/EP/BP	0.08 %
	Chlorhexidineglucityl Triazine (Impurity J)	NMT 0.4 %	USP/EP/BP	BDL
	Chlorhexidine	· · · · · · · · · · · · · · · · · · ·	USP/EP/BP	_
	Oxochlorhexidine (Impurity K)	NMT 0.4 %	USP/EP/BP	0.05 %
	Any individual unspecified impurity	NMT 0.10 %	USP/EP/BP	0.06 %
	Total impurities	NMT 3.0 %	USP/EP/BP	0.60 %

ing to the	PREPARED BY	CHECKED BY	APPROVED BY
NAME	Mr. Bhargav Patel	Mr. Vimal Patel	Mr. Sohail Shaikh
DESIGNATION	Officer QC	Manager QC	Manager QA
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DATE	06110/2000	36/10/2022	05/10/2022



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

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Product Name	Chlorhexidine Gluconate 20 % Solution (Pharma Grade)			
Reference	USP/EP/BP	AR. No.	FP/I/22/0377	
Batch No.	CGP2022251	Batch Size	8000 Kg.	
Mfg. Date	30/09/2022	Exp. Date	29/09/2025	
Release Date	06/10/2022			

Sr. No.	Tests	Specification	Reference	Results
7.	p -Chloroaniline	Not more than 500 ppm	USP	10.87 ppm
0		NLT 19.0 % (w/v) and NMT 21.0 % (w/v)	USP	20.33 % w/v
8.	Assay	NLT 190 g/L and NMT 210 g/L	EP/BP	200.2 g/L
Resi	dual Solvent	· 经工程公司经验的证据。		
9.	Methanol	Not more than 3000 ppm	Inhouse	283 ppm
10.	Butanol	Not more than 5000 ppm	Inhouse	31 ppm
11.	Colour absorbance test by UV at 480nm	NMT 0.05	Inhouse	0.013

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

A Commence of the commence of	PREPARED BY	CHECKED BY	APPROVED BY
NAME	Mr. Bhargav Patel	Mr. Vimal Patel	Mr. Sohail Shaikh
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Plot No.1 & 86, Sursez, Diamond Park, Sachin, Surat, Gujarat, India.

Certificate of Analysis

Product Name	Chlorhexidine Gluconate 20 % Solution		
Reference	In house	AR. No.	MT/I/22/0379
Batch No.	CGP2022251	Batch Size	8000.00 Kg
Mfg. Date	30/09/2022	Exp. Date	29/09/2025
Release Date	08/10/2022	3 (5) 7 (5) (6)	

Section-B: Microbial testing

Sr. No.	Tests	Specification	Reference	Results	
0.013	Microbial Enumeration Test				
1.	A. Total aerobic microbial count	NMT 10 ² CFU/mL	In house	Nil	
	B. Total yeasts and molds count	NMT 10 ² CFU/mL	In house	Nil	
	C. Other specific micro Organisms (Serratia 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.

	PREPARED BY	CHECKED BY	APPROVED BY
NAME	Mr. Akash Dhangar	Mr. Vimal Patel	Mr. Sohail Shaikh
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DATE	08110/2022	0810/2022	08/10/102