

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

	Certificat	te of Analysis	Section-A
Product Name ChlorhexidineGluconate 20 % Solution (Pharma Grade)			Grade)
Reference	USP/EP/BP	AR. No.	FP/I/20/0367
Batch No.	RN1/CHG/20/20/216	Batch Size	4200 Kg.
Mfg. Date	16/06/2020	Exp.Date	15/06/2023
Release Date	18/06/2020		

Section-A: Chemical testing Section-B: Microbial testing

Sr.	Section-A. Chemical testing Section-B: Wilerobial testing			
No.	Tests	Specification	Reference	Results
1,	Description	Almost colorless or pale yellowish, clear liquid.	USP/EP/BP	A clear colorless liquid.
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
3.	IDENTIFICATION:			
	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	134.2°C
	D. Chemical Test	A deep red color should be produced.	EP/BP	Complies
4.	Specificgravity/ Relative density	1.06 to 1.07	USP/EP/BP	1.064

	PREPARED BY	CHECKED BY	APPROVED BY
NAME	Mr. Jaimin Joshi	Mr. Vimal Patel	Mr. Niraj Choudhary
DESIGNATION	Officer QC	Assistant Manager QC	Assistant Manager QA/RA
SIGNATURE		The state of the s	(part)
DATE	18/06/2020	18/06/2020	18/06/2020



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

Certificate of Analysis

Section-A

V					
Product Name	ChlorhexidineGluconate 20	ChlorhexidineGluconate 20 % Solution (Pharma Grade)			
Reference	JSP/EP/BP AR. No. FP/I/20/0367				
Batch No.	RN1/CHG/20/20/216	Batch Size	4200 Kg.		
Mfg. Date	16/06/2020	Exp.Date	15/06/2023		
Release Date	18/06/2020				

Sr. No.	Tests	Specification	Reference	Results		
5.	pH(5% v/v)	5.5 to 7.0	USP/EP/BP	5.98		
6.	Organic impurities (Related substances)					
0.	Chlorhexidineoxazinone analog (Impurity L)	NMT 0.2 %	USP/EP/BP	BDL		
	Specified unidentifiedimpurity 1 (Impurity Q)	NMT 0.2 %	USP/EP/BP	BDL		
	Chlorhexidine amine (Impurity G)	NMT 0.3 %	USP/EP/BP	BDL		
	Chlorhexidine guanidine (Impurity N)	NMT 1.0 %	USP/EP/BP	BDL		
	Chlorhexidine urea (Impurity B)	NMT 0.2 %	USP/EP/BP	BDL		
	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	BDL		
	o- Chlorhexidineandspecifi edunidentifiedimpurity 2 (Sum of Impurity I & O)	NMT 0.4 %	USP/EP/BP	BDL		
	Chlorhexidineglucityl Triazine (Impurity J)	NMT 0.4 %	USP/EP/BP	BDL		
	Chlorhexidine	÷	USP/EP/BP	-		

	PREPARED BY	CHECKED BY	APPROVED BY
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DESIGNATION	Officer QC	Assistant Manager QC	Assistant Manager QA/FA
SIGNATURE	AB	1 June	1907
DATE	18/06/2020	18/06/2020	18/06/2020



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

Certificate of Analysis Section-A Product Name ChlorhexidineGluconate 20 % Solution (Pharma Grade) Reference USP/EP/BP AR. No. FP/I/20/0367 Batch No. RN1/CHG/20/20/216 Batch Size 4200 Kg. Mfg. Date 16/06/2020 Exp.Date 15/06/2023 Release Date 18/06/2020

Sr. No.	Tests	Specification	Reference	Results
Oxochlorhexidine (Impurity K)		NMT 0.4 %	USP/EP/BP	BDL
	Any individual unspecified impurity	NMT 0.10 %	USP/EP/BP	BDL
	Total impurities	NMT 3.0 %	USP/EP/BP	BDL
7.	p –Chloroaniline	Not more than 500 ppm	USP	8.19 ppm
8.	Assay	NLT 19.0 % (w/v) and NMT 21.0 % (w/v)	USP	20.05 % w/v
	·	NLT 190 g/L and NMT 210 g/L	EP/BP	206.0 g/L
Resi	dual Solvent		<u></u>	
9.	Methanol Not more than 3000 ppm		Inhouse	472.56 ppm
10.	Butanol	Not more than 5000 ppm	Inhouse	71.73 ppm
11.	Colour absorbance test by UV at 480nm 1% w/v Solution	NMT 0.005	Inhouse	0.004

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	Officer QC	Assignant Manager QC	Assistant Manager QA/RA
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DATE	18/06/2020	18/06/2020	18/06/2020



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

Certificate of Analysis Section-B Chlorhexidine Gluconate 20 % Solution Product Name AR. No. MT/I/20/0432 Reference In house Batch No. RN1/CHG/20/20/216 Batch Size 4200 Kg Expiry date 15/06/2023 Mfg. Date 16/06/2020 Release date 23/06/2020

Section-A: Chemical testing Section-B: Microbial testing

	ADDITIONAL TEST				
Sr. No	Tests Specification Reference		Results		
	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 organism (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	Ms. Janvi Patel	Mr. Vimal Patel	Mr. Niraj Choudhary
DESIGNATION	Officer MB	Asst Manager QC	Asst. Manager QA/RA
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DATE	23/06/2020	23/06/2020	23/06/2020