

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

	Certificat	te of Analysis	Section-A
Product Name	ChlorhexidineGluconate 20	% Solution (Pharma C	Grade)
Reference	USP/EP/BP	AR. No.	FP/I/20/0440
Batch No.	RN1/CHG/20/20/257	Batch Size	8400 Kg.
Mfg. Date	15/07/2020	Exp.Date	14/07/2023
Release Date	17/07/2020		

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

Sr.	Section-A: Chemical testing Section-B: Microbial 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:	9			
	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	134.8°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	1.066	

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

	Certifica	te of Analysis	Section-A
Product Name	ChlorhexidineGluconate 20	% Solution (Pharma G	Grade)
Reference	USP/EP/BP	AR. No.	FP/I/20/0440
Batch No.	RN1/CHG/20/20/257	Batch Size	8400 Kg.
Mfg. Date	15/07/2020	Exp.Date	14/07/2023
Release Date	17/07/2020		

Sr. No.	Tests	Specification	Reference	Results		
5.	pH(5% v/v)	5.5 to 7.0	USP/EP/BP	6.30		
6.	Organic impurities (Related substances)					
	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	-		

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NAME	Mr. Jaimin Joshi	Mr. Vimal Patel	Mr. Niraj Choudhary
DESIGNATION	Officer QC	Assistant Manager QC	Assistant/Manager QA/RA
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Plot No.1 & 86, Sursez, Diamond Park, Sachin, Surat, Gujarat, India.

	Certificat	te of Analysis	Section-A
Product Name	ChlorhexidineGluconate 20	% Solution (Pharma G	Grade)
Reference	USP/EP/BP	AR. No.	FP/I/20/0440
Batch No.	RN1/CHG/20/20/257	Batch Size	8400 Kg.
Mfg. Date	15/07/2020	Exp.Date	14/07/2023
Release Date	17/07/2020	.Y	

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	4.38 ppm
Q	8. Assay	NLT 19.0 % (w/v) and NMT 21.0 % (w/v)	USP	20.20 % w/v
0.		NLT 190 g/L and NMT 210 g/L	EP/BP	204.7 g/L
Resi	dual Solvent	*		
9.	Methanol	Not more than 3000 ppm	Inhouse	551.13 ppm
10.	Butanol Not more than 5000 ppm		Inhouse	44.30 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
NAME	Mr. Jaimin Joshi	Mr. Vimal Patel	Mr. Niraj Choudhary
DESIGNATION	Officer QC	Assistant Manager QC	Assistant Manager QA/RA
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Plot No.1 & 86, Sursez, Diamond Park, Sachin, Surat, Gujarat, India.

Certificate of Analysis			Section-B	
Product Name	Chlorhexidine Gluconate 20	Chlorhexidine Gluconate 20 % Solution		
Reference	In house	AR. No.	MT/I/20/0515	
Batch No.	RN1/CHG/20/20/257	Batch Size	8400 Kg	
Mfg. Date	15/07/2020	Expiry date	14/07/2023	
Release date	23/07/2020			

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

	ADDITIONAL TEST						
Sr. No Tests Specification Reference Results							
	Microbial Enumeration Test						
	A. Total aerobic microbial count	NMT 10 ² CFU/ml	In house	Nil			
1.	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. Neha Ashtekar	Mr. Vimal Patel	Mr. Sohail Shaikh
DESIGNATION	Officer MB	Aşşt. Manager QC	Asst. Manager QA
SIGNATURE	ileha	Noterin	SHE
DATE	23/07/2020.	23/07/2020	23072020

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