

R. N. LABORATORIES PVT. LTD.

Certificate of Analysis

Product Name	Chlorhexidine Gluco	Chlorhexidine Gluconate 20 % Solution		
Reference	USP/EP/BP	Inspection Lot No.	40000004238	
Batch No.	CGN2024164	Batch Size	8000.00 Kg.	
Mfg. Date	24/12/2024	Exp. Date	23/12/2027	
Release Date	28/12/2024			

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
4.	Specific gravity/ Relative density	1.06 to 1.07	USP/EP/BP	1.065
5.	pH(5% v/v)	5.5 to 7.0	USP/EP/BP	6.17

	PREPARED BY	CHECKED BY	APPROVED BY
NAME	Mr. Vikas Pathak	Mr. Prakash Patel	Mr. Sohail Shaikh
DESIGNATION	Sr.Executive QC	Manager QC	Manager QA
SIGNATURE	L-P-	fro s	F MARKETON
DATE	28/12/2024	18/12/20M	30/12/2024



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Certificate of Analysis

Product Name	Chlorhexidine Gluco	Chlorhexidine Gluconate 20 % Solution			
Reference	USP/EP/BP	USP/EP/BP Inspection Lot No. 4000004238			
Batch No.	CGN2024164	Batch Size	8000.00 Kg.		
Mfg. Date	24/12/2024	Exp. Date	23/12/2027		
Release Date	28/12/2024				

Sr. No.	Tests	Specification	Reference	Results	
	Organic impurities (Related substances)				
	Chlorhexidineoxazinoneanalog (Impurity L)	NMT 0.2 %	USP/EP/BP	BDL	
	Specified unidentifiedimpurity 1 (Impurity Q)	NMT 0.2 %	USP/EP/BP	0.09 %	
	Chlorhexidine amine (Impurity G)	NMT 0.3 %	USP/EP/BP	BDL	
	Chlorhexidine guanidine (Impurity N)	NMT 1.0 %	USP/EP/BP	0.08%	
	Chlorhexidine urea (Impurity B)	NMT 0.2 %	USP/EP/BP	0.05%	
	p-Chlorophenyl urea (Impurity F)	NMT 0.2 %	USP/EP/BP	ND	
6.	Chlorhexidine nitrile (Impurity A)	NMT 0.4 %	USP/EP/BP	BDL	
	Chlorhexidine dimer (Impurity H)	NMT 0.5 %	USP/EP/BP	0.30 %	
	o- Chlorhexidineandspecifiedunid entifiedimpurity 2 (Sum of Impurity I & O)	NMT 0.4 %	USP/EP/BP	0.06%	
	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	
	Any individual unspecified impurity	NMT 0.10 %	USP/EP/BP	BDL	
	Total impurities	NMT 3.0 %	USP/EP/BP	0.58 %	

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NAME	Mr. Vikas Pathak	Mr. Prakash Patel	Mr. Sohail Shaikh
DESIGNATION	Sr.Executive QC	Manager QC	Manager _, QA
SIGNATURE	<u></u>	AN.	P ALES
DATE	28/12/2024	retirezon	30 12 2024



R. N. LABORATORIES PVT. LTD.

Certificate of Analysis

Product Name	Chlorhexidine Glucona	Chlorhexidine Gluconate 20 % Solution			
Reference	USP/EP/BP	SP/EP/BP Inspection Lot No. 4000004238			
Batch No.	CGN2024164	Batch Size	8000.00 Kg.		
Mfg. Date	24/12/2024	Exp. Date	23/12/2027		
Release Date	28/12/2024				

Sr. No.	Tests	Specification	Reference	Results
7.	p -Chloroaniline	Not more than 500 ppm	USP	7.04 ppm
8.	Assay	NLT 19.0 % (w/v) and NMT 21.0 % (w/v)	USP	20.09 % w/v
9.	Colour absorbance test by UV at 480nm	NMT 0.1	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

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NAME	Mr. Vikas Pathak	Mr. Prakash Patel	Mr. Sohail Shaikh
DESIGNATION	Sr.Executive QC	Manager QC	Manager QA
SIGNATURE	<u></u>	Ano.	- AND SALE
DATE	25/12/2024	Affiltery	30/12/2024