

CERTIFICATE OF ANALYSIS					
1	Name of the Product	Pseudoephedrine HCl BP / Pharm.Eur			
2	Batch No.	210118	7	QC Analysis No.	FP/PSE/1809/02
3	Quantity Manufactured	1035.270 Kg	8	Date of Analysis	September 04 , 2018
4	Manufacturing Date	September - 2018	9	Expiry Date	August- 2023
5	Quantity Dispatched as per Pack	500.0 Kg (20 x 25.0 Kg)	10	Date of Release	September 06 , 2018
6	CAS No.	[345-78-8]			
RESULT OF ANALYSIS					
Sr. No.	TESTS	RESULTS		LIMITS	
1	Characters				
	1.1 Appearance	White crystalline powder		White or almost white crystalline powder, or colourless crystals	
	1.2 Solubility	Passes		Freely soluble in water and in ethanol (96%), sparingly soluble in methylene chloride	
	1.3 Melting Point (°C)	183.4		About 184.0	
2	Identification				
	A) Specific Optical Rotation (Dried substance) (αD) (°) (At 20.0 ± 0.5°C)	Passes		Between + 61.0 and + 62.5	
	B) IR	Complies		IR absorption spectrum of sample must be concordant with the reference spectrum of Pseudoephedrine Hydrochloride.	
	D) Chlorides	Positive		Solution gives reaction of chlorides.	
3	Appearance of Solution	Clear & Colourless		Must be clear & colourless	
4	Acidity or Alkalinity	Passes		On addition of 0.1mL of 0.01M NaOH Solution, the Solution is yellow. On addition of 0.2 mL of 0.01M HCl the Solution is red	
5	Loss on Drying (% w/w) (At 105°C to constant weight)	0.13		NMT 0.5	
6	Specific Optical Rotation (Dried substance) (αD) (°) (At 20.0 ± 0.5°C)	+ 62.0		Between + 61.0 and + 62.5	
7	Sulphated Ash (% w/w)	0.03		NMT 0.1	
8	Assay (Potentiometric on dried basis) (% w/w)	100.3		Between 99.0 and 101.0	
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RESULTS OF ANALYSIS					
Sr. No.	TESTS	RESULTS		LIMITS	
*9	Related Substances by HPLC (%w/w) a) Impurity 'A' Ephedrine b) Any other impurity c) Total Impurities other than 'A'	BDL BDL BDL		NMT 0.5 NMT 0.1 NMT 1.0	
#10	Impurities by HPLC (%w/w)				
	a. Individual Specified Impurities				
	i) l-Ephedrine HCl	Below LOD (0.006)		NMT 0.10	
	ii) Acetyephedrine	Below LOD (0.009)		NMT 0.10	
	iii) Benzaldehyde	Below LOD (0.007)		NMT 0.10	
	b. Individual Unspecified Impurities	Below LOD (0.002)		NMT 0.10	
	c. Total Unspecified Impurities	Below LOD (0.002)		NMT 0.20	
#11	Residual Solvents by GC (ppm)				
	A) Acetone	136		NMT 1000	
	B) Toluene	Below LOD (11)		NMT 100	
REMARK : *Disregard Limit : Below 0.05%					
REPORT : The material referred above complies with the prescribed standard Quality of BP 2018/ PHARM.EUR 9.0-2017 and # Q/SOP/TMD-054.					
REF:RDP-PSE/P11-12/70					
Prepared By: (Jr.Officer QC) <i>Desai</i> Suvarna P.Yadav		Checked By: (Asst . Manager QC) <i>Maruti L. Nalawade</i> Maruti L. Nalawade		Approved By: (Head Quality) <i>Pulak K. Sarkar</i> Pulak K.Sarkar	
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