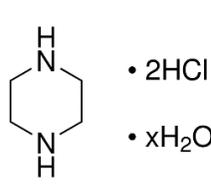




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Piperazine Dihydrochloride USP		Product Data Sheet																																	
CAS No. 142-64-3 $C_4H_{10}N_2 \cdot 2HCl \cdot xH_2O$		Molecular Weight : 159.02																																	
INFORMATION OF THE PRODUCT																																			
Sr.No.	Information																																		
1	Name of the Product	:	Piperazine Dihydrochloride USP																																
2	Structure	:																																	
3	Composition	:	It is composition of Piperazine salt and HCl																																
4	Chemical Name (IUPAC)	:	Piperazine Dihydrochloride																																
5	Properties	:	Anthelmintic																																
6	Specification	:	<table><tbody><tr><td>Appearance</td><td>A white crystalline powder.</td></tr><tr><td>Solubility</td><td>Freely soluble in water and slightly soluble in methanol & ethanol.</td></tr><tr><td>Identification</td><td></td></tr><tr><td>A) IR</td><td>IR spectrum of sample is concordant with that of the reference standard</td></tr><tr><td>B) TLC</td><td>The Rf value of the principal spot obtained from the test solution correspond to that obtained from the standard solution</td></tr><tr><td>C) Chloride</td><td>It gives reaction of chlorides.</td></tr><tr><td>pH</td><td>3.0 to 3.4</td></tr><tr><td>Water</td><td>NMT 10.0 %</td></tr><tr><td>Residue on Ignition</td><td>NMT 0.1 %</td></tr><tr><td>pH</td><td>10.5 to 12.0</td></tr><tr><td>Chromatographic Purity</td><td>Ethylene diamine : NMT- 0.25 %. Triethylene diamine : NMT- 0.25 %.</td></tr><tr><td>Assay</td><td></td></tr><tr><td>Assay by titration</td><td>98.5 % to 100.5 % on anhydrous basis</td></tr><tr><td>Additional In-house tests</td><td></td></tr><tr><td>Particle size</td><td>~ 100 % passing through 16 mesh / 30 mesh</td></tr><tr><td>Bulk Density</td><td>0.75 g/ml approx.</td></tr></tbody></table>	Appearance	A white crystalline powder.	Solubility	Freely soluble in water and slightly soluble in methanol & ethanol.	Identification		A) IR	IR spectrum of sample is concordant with that of the reference standard	B) TLC	The Rf value of the principal spot obtained from the test solution correspond to that obtained from the standard solution	C) Chloride	It gives reaction of chlorides.	pH	3.0 to 3.4	Water	NMT 10.0 %	Residue on Ignition	NMT 0.1 %	pH	10.5 to 12.0	Chromatographic Purity	Ethylene diamine : NMT- 0.25 %. Triethylene diamine : NMT- 0.25 %.	Assay		Assay by titration	98.5 % to 100.5 % on anhydrous basis	Additional In-house tests		Particle size	~ 100 % passing through 16 mesh / 30 mesh	Bulk Density	0.75 g/ml approx.
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Sr.No.	Information	
7	Uses	: It is indicated as alternative treatment for ascariasis caused by roundworm and enterobiasis caused by pinworm. Ref .Wikipedia
8	Packing	: 25 Kg. or 40 Kg. or 50 Kg. Fibre Drums with inner liner 25 Kg. or 50 Kg. Plastic Drums with inner liner
9	Shelf life	: Expiry Date: Five years from Date of manufacturing.
10	Storage	: Store in closed container in cool, dry place & protect from light, heat dust & other contaminants.