

## G. AMPHRAY LABORATORIES

## Piperazine Citrate BP/EP/USP/IP

CAS No. 144-29-6

## **Product Data Sheet**

Molecular Weight · 643

$(C_4H_{10}N_2)_3, 2C_6H_8O_7xH_2O_7$				Molecular Weight : 643				
INFORMATION OF THE PRODUCT								
Sr.No. Information								
1	Name of the Product	:	Piperazine Citrate BP/EP/USP/IP					
2	Structure	:	HQ P					
3	Composition	•	It is composition of	f Piperazine salt a	nd citric acid			
4	Chemical Name (IUPAC)	:	Piperazine Citrate					
5	Properties	·	Anthelminthic					
6	Specification		Appearance (As per /USP)	Ph. Eur./IP	A white or almost white granular or crystalline powder. It melts about 190 ° C			
			Solubility (As per Pl	h. Eur./USP/IP)	Freely soluble in water,			
			Identification					
			A) IR As per Ph. Eu	r./USP/IP)	IR spectrum of sample is concordant with that of the reference standard			
			b) TLC (As per Ph. 1	Eur./USP/IP)	The Rf value of the principal spot obtained from the test solution correspond to that obtained from the standard solution			
			C) Citrate test (As p Eur./USP/IP)	per Ph.	The solution gives reaction of citrates.			
			Appearance of solu Eur. / IP)	tion (As per Ph.	The solution is clear and colourless			
			Related Substances /IP), Chromatograp per USP)		Ethylene diamine : NMT- 0.25 %. Triethylene diamine : NMT- 0.25 %.			
			Heavy Metal (As per	r Ph. Eur. /IP)	NMT 20 ppm			
			Water (As per Ph. E	ur. /IP)	NLT 10.0 % to NMT 14.0 %			
			Water (As per USP)	)	NMT 12.0 %			
			Sulfated Ash (As per	r Ph. Eur. /IP )	NMT 0.1 %			
			pH (As per IP)		5.0 to 6.0			



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Sr.No.	Information						
			Assay				
			A) Assay by titration (As per Ph.Eur./ IP )	98.0 % to 101.0% calculated on the anhydrous basis			
			B) Assay by titration (As per USP)	98.0 % to 100.5% calculated on the anhydrous basis			
			Additional In-house tests				
			Particle size	$\sim 100~\%$ passing through 16 mesh / 30 mesh			
			Bulk density	~ 0.65 g/ml (Approx.)			
			Primary Amines & Ammonia	The ratio of A600/ A520 is not more than 0.5% (Equivalent to about 0.7% of Primary Amines & Ammonia )			
7	Uses	•	It is used as an anthelmintic for human and farm animal against intestinal obstruction by the common roundworms, a condition primarily occurring in children.				
			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				
			20 Kg. Kraft Paper Bags				
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.				