

G. AMPHRAY LABORATORIES

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CERTIFICATE OF ANALYSIS

Name of Product	:	PIPERAZINE ADIPATE BP / EP			
Batch No.	:	PA-004/08	Date of Receipt	:	12.04.2007
Date of Manufacture	:	April, 2007	Date of Analysis	:	12.04.2007
Date of Expiry	:	March, 2012	Sample Size	:	100 Grams
Batch Size	:	1,150 KGS.	Q. C. No.	:	G-07/058

RESULTS OF ANALYSIS

TESTS	RESULTS	LIMITS
Characters	A white crystalline powder.	A white crystalline powder.
Solubility	Soluble in water.	Soluble in water.
Identification (Second)		
Test (B)	Complies.	As per B.P.
Test (C)	Melting Point of Residue = 152.6 ° C	150 ° C to 154 ° C
Appearance of Solution	5 % w/v solution is clear and not more intensely coloured than reference solution B8.	5 % w/v solution is clear and not more intensely coloured than reference solution B8.
Related Substances	Complies	Not more than 0.25 %
Melting Point	251.0 ° C	It melts at about 250 ° C with decomposition.
Heavy Metals	Complies	Not more than 20 ppm.
Water	0.30 %	Not more than 0.5 %.
Sulphated Ash	0.028 %	Not more than 0.1 %
Assay (On Anhydrous Basis)	99.40 % of C ₁₀ H ₂₀ N ₂ O ₄	98 % to 101 %.

Additional Tests

1) Particle Size on Tyler Machine :

MICRON	MESH	% PASSING THROUGH
	20	100 %
	25	90.10 %

2) Bulk Density after 50 Tapped = 0.66 g/ml

REPORTS : THE ABOVE BATCH COMPLIES WITH THE PRESCRIBED STANDARDS OF QUALITY AS PER B.P. 2007 / E.P. 2004.

**Certified True Copy
For G. AMPHRAY LABORATORIES**

AUTHORISED SIGNATORY