

Kalchem International

Chemicals & Compounding Supplies

CERTIFICATE OF ANALYSIS

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Reference: current USP36 & In-House Standard

Complete Date : 2013.12.12

Name of Product	: Xylazine Hydrochloride	
Lot No.	: S89-0055	
Manufacture Date	: 2013.12.05	
Retest Date	: 2016.12.04	
ITEM	SPECIFICATION	RESULT
1. Description	Colorless to white crystalline powder.	White crystalline powder
2. Solubility	Sparingly soluble in dilute acid, in acetone, and in methanol; insoluble in dilute alkali.	Conform
3. Identification	The IR spectrum of the sample should be concordant with IR spectrum of USP Xylazine Hydrochloride reference standard or working standard. The size, intensity, and R _f value of the principal spot obtained from the test solution correspond to those of the principal spot obtained from the standard solution.	Conform
3-1 Infrared absorption(197K)		
3-2 Thin-layer Chromatographic test(201)		Conform
4. Melting range (741)	Between 164.0°C and 168.0°C.	167.2°C~167.8°C
5. pH (791)	Between 4.00 and 6.00.	5.56
6. Loss on drying (731)	Not more than 1.00%.	0.18%
7. Residue on ignition (281)	Not more than 0.10%.	0.03%
8. Heavy metals(<i>Method II</i> , 231)	Not more than 20ppm.	<20ppm
9. Chromatographic purity	The sum of the impurity responses is not greater than 2.00%.	N.D.
10. Assay	Between 98.00% and 102.00%, calculated on the anhydrous basis.	99.45%

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