



CERTIFICATE OF ANALYSIS

PIPERAZINE CITRATE

CAS Number 41372-10-5
Molecular Formula $(C_4H_{10}N_2)_3 \cdot 2C_6H_8O_7 \cdot xH_2O$
Molecular Weight 642.66 + xH_2O

TEST	SPECIFICATION
ASSAY (ANHYDROUS BASIS)	98.0 - 100.5%
WATER	-- 12.0%
CHROMATOGRAPHIC PURITY	--TO PASS TEST
IDENTIFICATION	--TO PASS TEST
EXPIRATION DATE	
RESIDUAL SOLVENTS	TO PASS TEST

PIPERAZINE HEXAYDRATE

CAS Number 142-63-2
Molecular Formula $C_4H_{10}N_2 \cdot 6H_2O$
Molecular Weight 194.23

TEST	SPECIFICATION
ASSAY	98 % --
EXPIRATION DATE	