

# PYRIDOXINE HCL (Vitamin B6)

PRODUCT	= PYRIDOXINE HYDROCHLORIDE
SYNONYM	= VITAMIN B6
CHEMICAL NAME	= 3-Hydroxy-4,5-bis(hydroxymethyl)-2-picoline HCl
AMOUNT	= 1 kg
MANUFACTURE DATE	= August 2013
EXP DATE	= August 2016
SHELF LIFE	= 3 years
LOT #	= PYR201308079
CAS #	= 58-56-0
MOLECULAR FORMULA	= C <sub>8</sub> H <sub>11</sub> NO <sub>3</sub> .HCl
MOLECULAR WEIGHT	= 205.64
STANDARDS	= USP, BP, EP, FG (Food Grade)

ITEM	SPECIFICATION	RESULT
IDENTIFICATION	= Positive	= Positive
APPEARANCE	= White to almost white crystalline powder	Conforms
IDENTIFICATION	= Positive	Positive
CLARITY AND COLOR OF SOLUTION	= As per requirement	Meets the requirement
ASSAY (on dry basis) Pyridoxine HCl	= 99.0 – 101.0%	= 99.8%
LOSS ON DRYING	< 0.2%	= 0.06%
RESIDUE ON IGNITION	< 0.1%	= 0.08%
MELTING RANGE	= 205 – 209°C	= 206.9°C
SOLUBILITY	= Completely soluble in water, slightly soluble in ethanol, insoluble in chloroform and ether	Conforms
RESIDUAL SOLVENTS	= As per requirement	Conforms
RELATED SUBSTANCES	< 0.025%	Conforms
ORGANIC VOLATILE IMPURITIES	= As per requirement	Conforms
MELAMINE	= Negative	Negative
MELTING POINT	= 205°C - 209°C	= 206.8 – 207.1°C
CHLORIDE CONTENT	= 16.9% - 17.6%	= 17.2%
TOTAL HEAVY METALS	< 1 ppm	Conforms
Pb	< 0.5 ppm	Conforms
As	< 0.2 ppm	Conforms
Cd	< 0.1 ppm	Conforms
Hg	< 0.01 ppm	Conforms
MICROBIOLOGICAL ANALYSIS:		
Total Aerobic Plate Count	< 1000 cfu/g	< 100
Yeast and Mold	< 100 cfu/g	< 10
Coliforms	Negative	Negative
E. Coli	Negative	Negative
Salmonella	Negative	Negative

