

SPECIFICATION

Product name Vitamin B6 (Pyridoxine Hydrochloride)
Product code SPB6-01
Production site Shandong NHU Fine Chemical Science and Technology
Trade name Vitamin B6 Pyridoxine (EP/USP/FCC)

Description

Ingredients Pyridoxine hydrochloride
Synonym 6-methyl-5-hydroxy-3,4-pyridinedimethanol hydrochloride
Formula $C_8H_{12}ClNO_3$
CAS No 58-56-0

Properties

Shelf life 48 months in unopened original packaging
Aspect White or almost white crystalline powder
Assay 99 – 101 % (EP)
Particle size distribution > 99 % through mesh 40
< 30 % through 120 mesh

Identification A, B, C

EP: First identification: B, D
Second identification: A, C, D
A: Ultraviolet and visible absorption spectrophotometry
B: Infrared absorption spectrophotometry
C: Thin-Layer chromatography
D: Solution S gives reaction of chlorides
USP: A. Infrared absorption
B: Reaction of chlorides

Chloride (on dry basis) 16,9 % - 17,6 %
pH 2,4 – 3,0
Loss on drying ≤ 0,5 %
Appearance of solution Clear, not more intensely coloured than reference solution Y7
Sulphated ash ≤ 0,1 %
Residual solvents ≤ 0,5 % (Ethanol)

Related substances (disregard limit 0,05 %)

Impurity B	≤ 0,15 %
Unspecified impurity, for each impurity	≤ 0,10 %
Total impurities	≤ 0,20 %

Heavy metals

Arsenic (As)	≤ 0,5 mg/kg
Lead (Pb)	≤ 0,2 mg/kg
Mercury (Hg)	≤ 0,1 mg/kg
Cadmium (Cd)	≤ 0,5 mg/kg

Microbiological specs

Total plate count	< 100 CFU/g
Mould and Yeast	< 10 CFU/g
E. coli	Negative in 10 g
Salmonella	Negative in 25 g
Staph. aureus	Negative in 10 g

Handling

Usage	for cosmetic and food industry
Storage	In unopened original packing in a dry and cool place, protected from sun light.
Transport instructions	Please see our latest MSDS.

NHU EUROPE GmbH