



SPECIFICATION

Product name	Vitamin B6 Typ 1 (Pyridoxine Hydrochloride)
Product code	SPB6-01
Production site	Shandong NHU Fine Chemical Science and Technology
Description	
Ingredients	Pyridoxine hydrochloride
Synonym	6-methyl-5-hydroxy-3,4-pyridinedimethanol hydrochloride
Formula	C ₈ H ₁₂ ClNO ₃
CAS No	58-56-0
Properties	
Shelf life	36 months in unopened original packaging
Aspect	White or almost white crystalline powder
Assay	99 – 101 % (EP)
Particle size distribution	> 99 % through 40 mesh < 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
Ignition residue	≤ 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 25 g

Handling

Usage	For food and cosmetic applications
Storage	In unopened original packing in a dry and cool place, protected from sun light.
Transport	See our latest safety data sheet

The product complies with the current EP, USP and FCC.

NHU Life Science GmbH