



## SPECIFICATION

**Product name** Vitamin B6 (Pyridoxine hydrochloride)  
**Product code** SPB6-03  
**Production site** Shandong NHU Fine Chemical Science and Technology

### Description

**Ingredients** Pyridoxine hydrochloride  
**Synonym** 6-methyl-5-hydroxy-3,4-pyridinedimethanol hydrochloride  
**Formula**  $C_8H_{12}ClNO_3$   
**Molecular weight** 205,64 g/mol  
**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** > 98 % through 60 mesh  
> 90 % through 80 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 intense than 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 aerobic microbial count	< 100 CFU/g
Mould/Yeast Count	< 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 industry
Storage	In unopened original packing in a dry and cool place, protected from sun light.
Transport	See latest safety data sheet

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

**NHU Life Science GmbH**