

## SPECIFICATION

<b>Product name</b>	<b>Vitamin B6 (Pyridoxine Hydrochloride)</b>
<b>Product code</b>	<b>SPB6-03</b>
<b>Production site</b>	<b>Shandong NHU Fine Chemical Science and Technology</b>
<b>Trade name</b>	<b>Vitamin B6 Pyridoxine (EP/USP/FCC)</b>
<b>Description</b>	
Ingredients	Pyridoxine hydrochloride
Synonym	6-methyl-5-hydroxy-3,4-pyridinedimethanol hydrochloride
Formula	C <sub>8</sub> H <sub>12</sub> ClNO <sub>3</sub>
Molecular weight	205,64 g/mol
CAS No	58-56-0
<b>Properties</b>	
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
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 aerobic microbial count	< 100 CFU/g
Total combined Mould/Yeast Count	< 10 CFU/g
E. coli	negative in 10 g
Salmonella	Negative in 25 g
Staph. aureus	Negative in 10 g
Listeria monocytogenes	negative in 1 g
Pseudomonas aeruginosa	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**