

## SPECIFICATION

## Vitamin B6 Pyridoxine Food Grade (EP/USP/FCC)

### Production unit

Shandong NHU Fine Chemical Science and Technology

### Description

Ingredients

Pyridoxine hydrochloride

Synonym

6-methyl-5-hydroxy-3,4-pyridinedimethanol  
hydrochloride

Formula

$C_8H_{12}ClNO_3$

Product code

SPB6-01-1

CAS No

58-56-0

### Properties

Shelf life

24 months in unopened original packaging

Aspect

White or almost white crystalline powder

Assay

99 – 101 % (EP)

Particle size distribution

99 % < 420  $\mu$ m

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

$\leq$  0,5 %

Appearance of solution

Clear, not more intense than Y7

Ignition residue

$\leq$  0,1 %

Residual solvents

$\leq$  0,5 % (Ethanol)

### Related substances (disregard limit 0,05 %)

Impurity B

$\leq$  0,15 %

Unspecified impurity, for each impurity

$\leq$  0,10 %

Total impurities

$\leq$  0,20 %

<b>Heavy metals</b>	≤ 10 mg/kg
Arsenic (As)	≤ 1 mg/kg
Lead (Pb)	≤ 0,5 mg/kg
Mercury (Hg)	≤ 0,1 mg/kg
Cadmium (Cd)	≤ 0,5 mg/kg

<b>Microbiological specs</b>	
Total plate count	< 1000 CFU/g
Mould and Yeast	< 100 CFU/g
E. coli	Negative in 10 g
Salmonella	Negative in 25 g
Staph. aureus	Negative in 10 g

<b>Handling</b>	
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

*Vitamin B6 Pyridoxine/SPB6-01-1/überarbeitet und freigegeben: 190822/av*

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