

## 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

SPB6-03

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

> 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 %

<b>Heavy metals</b>	≤ 10 mg/kg
Arsenic (As)	≤ 0,5 mg/kg
Lead (Pb)	≤ 0,2 mg/kg
Mercury (Hg)	≤ 0,1 mg/kg
Cadmium (Cd)	≤ 0,5 mg/kg

<b>Microbiological specs</b>	
Total plate count	< 100 CFU/g
Mould and Yeast	< 10 CFU/g
E. coli	< 0,3 MPN/g
Salmonella	Negative in 25 g
Staph. aureus	Negative in 25 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/SPB6-03/überarbeitet und freigegeben: 0504423/av*

Bank account EUR  
Deutsche Bank AG  
DE 53 2407 0075 0019 5222 00  
DEUTDE2H240

Bank account USD  
Deutsche Bank AG  
DE 53 2407 0075 0019 5222 0005  
DEUTDE2H240

NHU EUROPE GMBH  
VAT Nr: DE 300 149 623 | Company license Nr: HRB 205610  
District Court: Lüneburg/Germany  
General Manager: Thomas Hoops