

## 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

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 % through mesh 40

< 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 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,<br>protected from sun light. |
| Transport instructions | Please see our latest MSDS.  |

## NHU EUROPE GmbH

*Vitamin B6 Pyridoxine/SPB6-01/überarbeitet und freigegeben: 050423/av*

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