PYRIDOXINE HCl- pyridoxine hci injection, solution
HF Acquisition Co LLC, DBA HealthFirst
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PYRIDOXINE HCl INJECTION, USP 100mg per mL 1mL VIAL

SPL UNCLASSIFIED
100 mg/mL

DESCRIPTION
Pyridoxine Hydrochloride Injection, USP is a sterile solution of pyridoxine hydrochloride in Water for Injection. Each mL contains 100 mg pyridoxine hydrochloride and 0.5% chlorobutanol anhydrous (chloral deriv.). pH adjusted with sodium hydroxide if necessary (2.0 to 3.8).
Pyridoxine hydrochloride is a colorless or white crystal or a white crystalline powder. One gram dissolves in 5 mL of water. It is stable in air and is slowly affected by sunlight.
The chemical name is 2-methyl-3-hydroxy-4,5-bis (hydroxymethyl) pyridine hydrochloride.
The structural formula is:
Natural substances that have vitamin B6 activity are pyridoxine in plants and pyridoxal or pyridoxamine in animals. All 3 are converted to pyridoxal phosphate by the enzyme pyridoxal kinase. The physiologically active forms of vitamin B6 are pyridoxal phosphate (codecarboxylase) and pyridoxamine phosphate. Riboflavin is required for the conversion of pyridoxine phosphate to pyridoxal phosphate.

Vitamin B6 acts as a coenzyme in the metabolism of protein, carbohydrate, and fat. In protein metabolism, it participates in the decarboxylation of amino acids, conversion of tryptophan to niacin or to serotonin (5-hydroxtryptamine), deamination, and transamination and transulfuration of amino acids. In carbohydrate metabolism, it is responsible for the breakdown of glycogen to glucose-1-phosphate.

The total adult body pool consists of 16 to 25 mg of pyridoxine. Its half-life appears to be 15 to 20 days. Vitamin B6 is degraded to 4-pyridoxic acid in the liver. This metabolite is excreted in the urine.

The need for pyridoxine increases with the amount of protein in the diet. The tryptophan load test appears to uncover early vitamin B6 deficiency by detecting xanthinourea. The average adult minimum daily requirement is about 1.25 mg. The ‘Recommended Dietary Allowance’ of the National Academy of Sciences is estimated to be as much as 2.2 mg for adults and 2.5 mg for pregnant and lactating women. The requirements are more in persons having certain genetic defects or those being treated with
isonicotinic acid hydrazide (INH) or oral contraceptives.

**INDICATIONS & USAGE**

Pyridoxine Hydrochloride Injection is effective for the treatment of pyridoxine deficiency as seen in the following:

- Inadequate dietary intake.
- Drug-induced deficiency, as from isoniazid (INH) or oral contraceptives.
- Inborn errors of metabolism, e.g., vitamin B6 dependent convulsions or vitamin B6 responsive anemia.

The parenteral route is indicated when oral administration is not feasible as in anorexia, nausea and vomiting, and preoperative and postoperative conditions. It is also indicated when gastrointestinal absorption is impaired.

**CONTRAINDICATIONS**

A history of sensitivity to pyridoxine or to any of the ingredients in Pyridoxine Hydrochloride Injection, USP is a contraindication.

**WARNINGS**

**WARNING:** This product contains aluminum that may be toxic. Aluminum may reach toxic levels with prolonged parenteral administration if kidney function is impaired. Premature neonates are particularly at risk because their kidneys are immature, and they require large amounts of calcium and phosphate solutions, which contain aluminum.

Research indicates that patients with impaired kidney function, including premature neonates, who receive parenteral levels of aluminum at greater than 4 to 5 mcg/kg/day accumulate aluminum at levels associated with central nervous system and bone toxicity. Tissue loading may occur at even lower rates of administration.

**PRECAUTIONS**

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**ADVERSE REACTIONS**

Paresthesia, somnolence, and low serum folic acid levels have been reported.

**DRUG ABUSE AND DEPENDENCE**

Symptoms of dependence have been noted in adults given only 200 mg daily, followed by withdrawal.

**OVERDOSAGE**
Pyridoxine given to animals in amounts of 3 to 4 g/kg of body weight produces convulsions and death. In man, a dose of 25 mg/kg of body weight is well tolerated.

**DOSAGE & ADMINISTRATION**

Pyridoxine Hydrochloride Injection may be administered intramuscularly or intravenously. In cases of dietary deficiency, the dosage is 10 to 20 mg daily for 3 weeks. Follow-up treatment is recommended daily for several weeks with an oral therapeutic multivitamin preparation containing 2 to 5 mg pyridoxine. Poor dietary habits should be corrected, and an adequate, well balanced diet should be prescribed.

The vitamin B6 dependency syndrome may require a therapeutic dosage of as much as 600 mg a day and a daily intake of 30 mg for life.

In deficiencies due to INH, the dosage is 100 mg daily for 3 weeks followed by a 30 mg maintenance dose daily.

In poisoning caused by ingestion of more than 10 g of INH, an equal amount of pyridoxine should be given — 4 g intravenously followed by 1 g intramuscularly every 30 minutes.

Parenteral drug products should be inspected visually for particulate matter and discoloration prior to administration, whenever solution and container permit.

**HOW SUPPLIED**

PYRIDOXINE HCI INJECTION, USP is supplied in the following dosage forms.

NDC 51662-1410-1
PYRIDOXINE HCI INJECTION, USP 100mg per mL 1mL VIAL

HF Acquisition Co LLC, DBA HealthFirst
Mukilteo, WA 98275

Also supplied in the following manufacture supplied dosage forms

Pyridoxine Hydrochloride Injection, USP is supplied as:
PROTECT FROM LIGHT.
Use only if solution is clear and seal intact.
Sterile.
Store at 20° to 25°C (68° to 77°F) [see USP Controlled Room Temperature].

**SPL UNCLASSIFIED**

45817F
Revised: March 2015

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<th>NDC No.</th>
<th>Strength</th>
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<td>63323-180-01</td>
<td>100 mg per mL 1 mL fill in a 2 mL multiple dose vial, in packages of 25.</td>
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PYRIDOXINE HCL INJECTION, USP  
100 mg per mL  
For IM or IV Use  
1 mL Multiple Dose Vial  
Usual Dosage: See insert.  
Rx only
PYRIDOXINE HCl
pyridoxine hci injection, solution
### Product Information

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### Active Ingredient/Active Moiety

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<th>Ingredient Name (UNII: 68Y4CF58BV) (PYRIDOXINE - UNII:KV2JZ1BI6Z)</th>
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<tr>
<td>PYRIDOXINE HYDROCHLORIDE</td>
<td>PYRIDOXINE HYDROCHLORIDE</td>
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### Inactive Ingredients

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<td>SODIUM HYDROXIDE (UNII: 55X04QC32I)</td>
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### Packaging

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### Marketing Information

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### Labeler

- HF Acquisition Co LLC, DBA HealthFirst (045657305)

### Registrant

- HF Acquisition Co LLC, DBA HealthFirst (045657305)

### Establishment

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Revised: 2/2020