

SODIUM PHOSPHATES- sodium phosphates injection, solution
GLENMARK PHARMACEUTICALS INC., USA

SODIUM PHOSPHATES INJECTION, USP

15 mM P in 5 mL (3 mM P and 4 mEq Na⁺/mL)

45 mM P in 15 mL (3 mM P and 4 mEq Na⁺/mL)

150 mM P in 50 mL (3 mM P and 4 mEq Na⁺/mL)

FOR ADDITIVE USE ONLY AFTER DILUTION IN I.V. FLUIDS

Plastic Vial

Rx only

DESCRIPTION

Sodium phosphates injection, USP, 3 mM P/mL (millimoles/mL), is a sterile, nonpyrogenic, concentrated solution containing a mixture of monobasic sodium phosphate and dibasic sodium phosphate in water for injection.

The solution is administered after dilution by the intravenous route as an electrolyte replenisher. *It must not be administered undiluted.*

Each mL contains 276 mg of monobasic sodium phosphate, monohydrate and 142 mg of dibasic sodium phosphate, anhydrous (equivalent to 268 mg of dibasic sodium phosphate, heptahydrate). One mM of phosphorus weighs 31 mg, and the product provides 93 mg (approximately 3 mM) of phosphorus/mL plus 92 mg (4 mEq) of sodium/mL. Note: 1 mM P = 1 mM PO₄. It contains no bacteriostat, antimicrobial agent or added buffer. The pH is 5.5 (5.0 to 6.0). The osmolar concentration is 7 mOsmol/mL (calc).

The solution is intended as an alternative to potassium phosphate to provide phosphorus for addition to large volume infusion fluids for intravenous use. It is provided as a 5 mL, 15 mL and 50 mL partial fill single-dose vial; when lesser amounts are required, the unused portion should be discarded with the entire unit. Monobasic Sodium Phosphate, USP (monohydrate) is chemically designated NaH₂PO₄•H₂O, white, odorless crystals or granules freely soluble in water. Dibasic Sodium Phosphate, USP (anhydrous) is chemically designated Na₂HPO₄, colorless or white granular salt freely soluble in water.

CLINICAL PHARMACOLOGY

Phosphorus in the form of organic and inorganic phosphate has a variety of important biochemical functions in the body and is involved in many significant metabolic and enzyme reactions in almost all organs and tissues. It exerts a modifying influence on the steady state of calcium levels, a buffering effect on acid-base equilibrium and a primary role in the renal excretion of hydrogen ion.

Phosphorus is present in plasma and other extracellular fluid, in cell membranes and intracellular fluid, as well as in collagen and bone tissues. Phosphorus in the extracellular fluid is primarily in inorganic form and plasma levels may vary somewhat with age. The ratio of disodium phosphate and monosodium phosphate in the extracellular fluid is 4 to 1 (80% to 20%) at the normal pH of 7.4. This buffer ratio varies with the pH, but owing

to its relatively low concentration, it contributes little to the buffering capacity of the extracellular fluid.

Phosphorus, present in large amounts in erythrocytes and other tissue cells, plays a significant intracellular role in the synthesis of high energy organic phosphates. It has been shown to be essential to maintain red cell glucose utilization, lactate production, and the concentration of both erythrocyte adenosine triphosphate (ATP) and 2,3 diphosphoglycerate (DPG), and must be deemed as important to other tissue cells. Hypophosphatemia should be avoided during periods of total parenteral nutrition, or other lengthy periods of intravenous infusions. It has been suggested that patients receiving total parenteral nutrition receive 12 to 15 mM phosphorus per 250 g of dextrose. Serum phosphorus levels should be regularly monitored and appropriate amounts of phosphorus should be added to the infusions to maintain normal serum phosphorus levels. Intravenous infusion of inorganic phosphorus may be accompanied by a decrease in the serum level and urinary excretion of calcium. The normal level of serum phosphorus is 3.0 to 4.5 mg/100 mL in adults; 4.0 to 7.0 mg/100 mL in children. Intravenously infused phosphorus not taken up by the tissues is excreted almost entirely in the urine. Plasma phosphorus is believed to be filterable by the renal glomeruli, and the major portion of filtered phosphorus (greater than 80%) is actively reabsorbed by the tubules. Many modifying influences tend to alter the amount excreted in the urine.

Sodium is the principal cation of extracellular fluid. It comprises more than 90% of the total cations at its normal plasma concentration of approximately 142 mEq/liter. While the sodium ion can diffuse across cell membranes, intracellular sodium is maintained at a much lower concentration than extracellular sodium through the expenditure of energy by the cell (so called "sodium cation pump"). Loss of intracellular potassium ion is usually accompanied by an increase in intracellular sodium ion.

When serum sodium concentration is low, the secretion of antidiuretic hormone (ADH) by the pituitary is inhibited, thereby preventing water reabsorption by the distal renal tubules. On the other hand, adrenal secretion of aldosterone increases renal tubular reabsorption of sodium in an effort to re-establish normal serum sodium concentration.

INDICATIONS AND USAGE

Sodium phosphates injection, 3 mM P/mL is indicated as a source of phosphorus, for addition to large volume intravenous fluids, to prevent or correct hypophosphatemia in patients with restricted or no oral intake. It is also useful as an additive for preparing specific parenteral fluid formulas when the needs of the patient cannot be met by standard electrolyte or nutrient solutions.

The concomitant amount of sodium (Na^+ 4 mEq/mL) must be calculated into total electrolyte dose of such prepared solutions.

CONTRAINDICATIONS

Sodium phosphate is contraindicated in diseases where high phosphorus or low calcium levels may be encountered, and in patients with hypernatremia.

WARNINGS

Sodium phosphates injection, 3 mM P/mL must be diluted and thoroughly mixed before use.

To avoid phosphorus intoxication, infuse solutions containing sodium phosphate slowly. Infusing high concentrations of phosphorus may result in a reduction of serum calcium and symptoms of hypocalcemic tetany. Calcium levels should be monitored.

Solutions containing sodium ions should be used with great care, if at all, in patients with congestive heart failure, severe renal insufficiency and in clinical states in which there exists edema with sodium retention.

In patients with diminished renal function, administration of solutions containing sodium ions may result in sodium retention.

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

Do not administer unless solution is clear and seal is intact. Discard unused portion.

Phosphorus replacement therapy with sodium phosphate should be guided primarily by the serum phosphorus level and the limits imposed by the accompanying sodium (Na^+) ion.

Use with caution in patients with renal impairment, cirrhosis, cardiac failure and other edematous or sodium-retaining states.

Caution must be exercised in the administration of parenteral fluids, especially those containing sodium ions, to patients receiving corticosteroids or corticotropin.

Pregnancy: Animal reproduction studies have not been conducted with sodium phosphate. It is also not known whether sodium phosphate can cause fetal harm when administered to a pregnant woman or can affect reproduction capacity. Sodium phosphate should be given to a pregnant woman only if clearly needed.

Pediatric Use: The safety and effectiveness of sodium phosphate has been established in pediatric patients (neonates, infants, children and adolescents).

Geriatric Use: An evaluation of current literature revealed no clinical experience identifying differences in response between elderly and younger patients. In general, dose selection for an elderly patient should be cautious, usually starting at the low end of the dosing range, reflecting the greater frequency of decreased hepatic, renal, or cardiac function, and of concomitant disease or other drug therapy.

Sodium ions and phosphorus are known to be substantially excreted by the kidney, and the risk of toxic reactions to this drug may be greater in patients with impaired renal

function. Because elderly patients are more likely to have decreased renal function, care should be taken in dose selection, and it may be useful to monitor renal function.

ADVERSE REACTIONS

Adverse reactions involve the possibility of phosphorus intoxication. Phosphorus intoxication results in a reduction of serum calcium and the symptoms are those of hypocalcemic tetany. See WARNINGS.

To report SUSPECTED ADVERSE REACTIONS, contact Glenmark Pharmaceuticals Inc.,

USA at 1 (888) 721-7115 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

OVERDOSAGE

In the event of overdosage, discontinue infusions containing sodium phosphate immediately and institute corrective therapy to restore depressed serum calcium and to reduce elevated serum sodium levels. See WARNINGS, PRECAUTIONS and ADVERSE REACTIONS.

DOSAGE AND ADMINISTRATION

Sodium phosphates injection, 3 mM P/mL is administered intravenously *only after dilution and thorough mixing in a larger volume of fluid*. The dose and rate of administration are dependent upon the individual needs of the patient. Serum sodium, phosphorus and calcium levels should be monitored as a guide to dosage. Using aseptic technique, all or part of the contents of one or more vials may be added to other intravenous fluids to provide any desired number of millimoles (mM) of phosphorus.

In patients on total parenteral nutrition, approximately 12 to 15 mM of phosphorus (equivalent to 372 to 465 mg elemental phosphorus) per liter bottle of TPN solution containing 250 g dextrose is usually adequate to maintain normal serum phosphorus, though larger amounts may be required in hypermetabolic states. The amount of sodium and phosphorus which accompanies the addition of sodium phosphate also should be kept in mind, and if necessary, serum sodium levels should be monitored.

The suggested dose of phosphorus for infants receiving TPN is 1.5 to 2 mM P/kg/day.

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

HOW SUPPLIED

Sodium phosphates injection, USP, 3 mM P/mL is supplied as per below.

Unit of Sale	Concentration	Unit of Use
NDC 68462-728-25	15 mM P/5 mL (3 mM P/mL)	NDC 68462-728-05

Carton containing 25 vials	containing 20 mEq Na ⁺ /5 mL (4 mEq Na ⁺ /mL)	5 mL Single-dose Plastic Vial*
NDC 68462-729-25 Carton containing 25 vials	45 mM P/15 mL (3 mM P/mL) containing 60 mEq Na ⁺ /15 mL (4 mEq Na ⁺ /mL)	NDC 68462-729-15 15 mL Single-dose Plastic Vial*
NDC 68462-730-25 Carton containing 25 vials	150 mM P/50 mL (3 mM P/mL) containing 200 mEq Na ⁺ /50 mL (4 mEq Na ⁺ /mL)	NDC 68462-730-50 50 mL Single-dose Plastic Vial

* Each container is partially filled to provide air space needed for complete vacuum withdrawal of the contents into the I.V. container.

Store at 20 to 25°C (68 to 77°F). [see USP Controlled Room Temperature.]

Distributed by:



Glenmark Pharmaceuticals Inc., USA

Elmwood Park, NJ 07407

January 2026

22201407

PACKAGE LABEL.PRINCIPAL DISPLAY PANEL

Container Label - 5 mL

NDC **68462-728-05**

Sodium Phosphates

Injection, USP

15 mM P/5 mL (3 mM P/mL)

20 mEq Na⁺/5 mL (4 mEq Na⁺/mL)

CAUTION: MUST BE DILUTED

For Intravenous Use

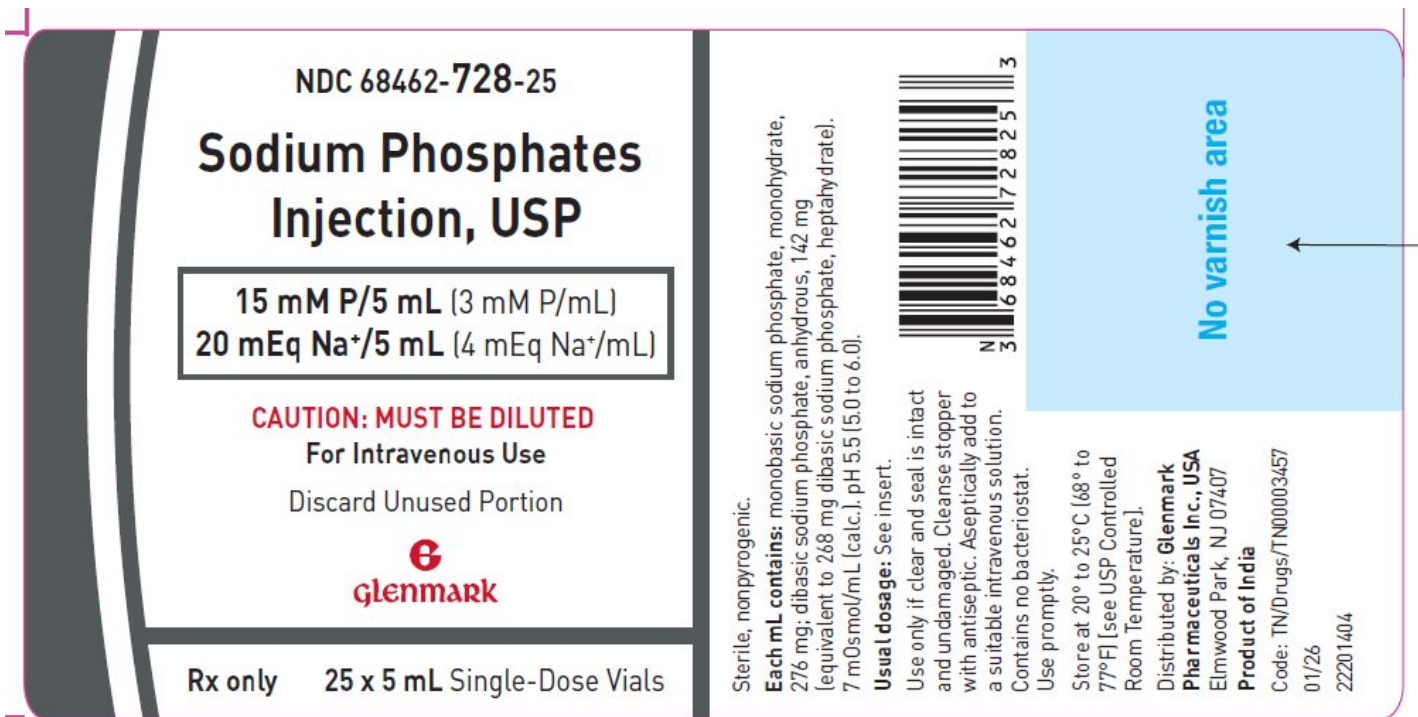
Discard Unused Portion

Rx only 5 mL Single-Dose Vial



Carton Label - 5 mL

NDC **68462-728-25**
Sodium Phosphates Injection, USP
15 mM P/5 mL (3 mM P/mL)
20 mEq Na⁺/5 mL (4 mEq Na⁺/mL)
CAUTION: MUST BE DILUTED For Intravenous Use
 Discard Unused Portion
Rx only 25 x 5 mL Single-Dose Vials



Container Label - 15 mL

NDC **68462-729-15**
Sodium Phosphates Injection, USP
45 mM P/15 mL (3 mM P/mL)
60 mEq Na⁺/15 mL (4 mEq Na⁺/mL)

**CAUTION: MUST BE DILUTED
For Intravenous Use**

Discard Unused Portion
Rx only 15 mL Single-Dose Vial

NDC 68462-729-15j
Sodium Phosphates Injection, USP

45 mM P/15 mL (3 mM P/mL)
60 mEq Na⁺/15 mL (4 mEq Na⁺/mL)

**CAUTION: MUST BE DILUTED
For Intravenous Use**
Discard Unused Portion

glenmark

Rx only 15 mL Single-Dose Vial

Sterile, nonpyrogenic.
Each mL contains: monobasic sodium phosphate, monohydrate, 276 mg; dibasic sodium phosphate, anhydrous, 142 mg (equivalent to 268 mg dibasic sodium phosphate, heptahydrate), 7 mOsmol/mL (calc.).

Usual dosage: See insert.
Contains no more than 180 micrograms/Liter of aluminum.

Store at 20° to 25°C (68° to 77°F) [See USP Controlled Room Temperature].

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Elmwood Park, NJ 07407

Product of India
Code: TN/Drugs/TN00003457
01/26 22201382

3116846217291511

LOT:
EXP:

Batch Coding Details
14 mm x 16.975 mm

Carton Label - 15 mL

**NDC 68462-729-25
Sodium Phosphates Injection, USP**

45 mM P/15 mL (3 mM P/mL)
60 mEq Na⁺/15 mL (4 mEq Na⁺/mL)
**CAUTION: MUST BE DILUTED
For Intravenous Use**
Discard Unused Portion
Rx only 25 x 15 mL Single-Dose Vials

NDC 68462-729-25
Sodium Phosphates Injection, USP

45 mM P/15 mL (3 mM P/mL)
60 mEq Na⁺/15 mL (4 mEq Na⁺/mL)

**CAUTION: MUST BE DILUTED
For Intravenous Use**
Discard Unused Portion

glenmark

Rx only 25 x 15 mL Single-Dose Vials

Sterile, nonpyrogenic.
Each mL contains: monobasic sodium phosphate, monohydrate, 276 mg; dibasic sodium phosphate, anhydrous, 142 mg (equivalent to 268 mg dibasic sodium phosphate, heptahydrate), 7 mOsmol/mL (calc.), pH 5.5 (5.0 to 6.0).

Usual dosage: See insert.
Use only if clear and seal is intact and undamaged. Cleanse stopper with antiseptic. Aseptically add to a suitable intravenous solution.
Contains no bacteriostat.
Use promptly.

Store at 20° to 25°C (68° to 77°F) [See USP Controlled Room Temperature].

Distributed by: **Glenmark Pharmaceuticals Inc., USA**
Elmwood Park, NJ 07407

Product of India
Code: TN/Drugs/TN00003457
01/26 22201405

31168462172925110

No varnish area

Container Label - 50 mL
NDC 68462-730-50

**Sodium Phosphates
Injection, USP**

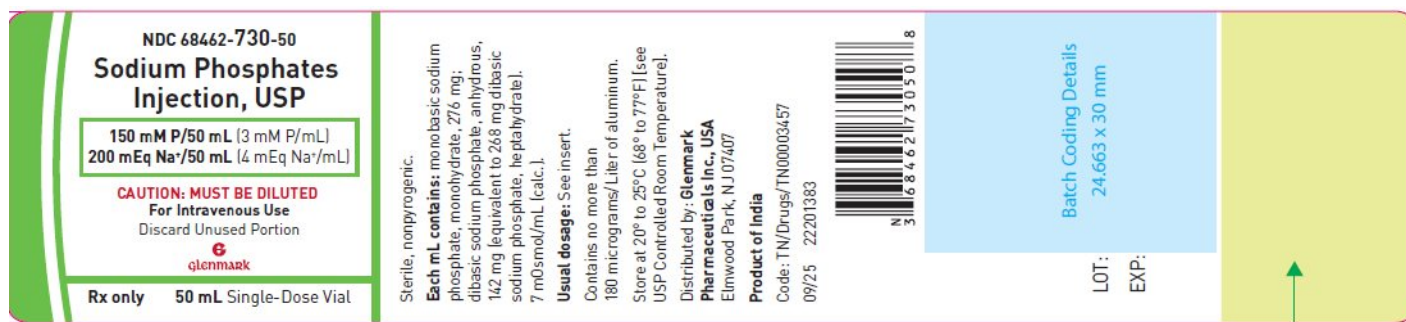
150 mM P/50 mL (3 mM P/mL)

200 mEq Na⁺/50 mL (4 mEq Na⁺/mL)

**CAUTION: MUST BE DILUTED
For Intravenous Use**

Discard Unused Portion

Rx only 50 mL Single-Dose Vial



Carton Label - 50 mL

**NDC 68462-730-25
Sodium Phosphates
Injection, USP**

150 mM P/50 mL (3 mM P/mL)

200 mEq Na⁺/50 mL (4 mEq Na⁺/mL)

**CAUTION: MUST BE DILUTED
For Intravenous Use**

Discard Unused Portion

Rx only 25 x 50 mL Single-Dose Vials

NDC 68462-730-25

Sodium Phosphates Injection, USP

150 mM P/50 mL (3 mM P/mL)
200 mEq Na⁺/50 mL (4 mEq Na⁺/mL)

CAUTION: MUST BE DILUTED
For Intravenous Use
Discard Unused Portion



Rx only 25 x 50 mL Single-Dose Vials

Sterile, non pyrogenic.
Each mL contains: monobasic sodium phosphate, monohydrate, 276 mg; dibasic sodium phosphate, anhydrous, 142 mg (equivalent to 268 mg dibasic sodium phosphate, heptahydrate). 7 mOsmol/mL (calc.). pH 5.5 (5.0 to 6.0).

Usual dosage: See insert.
Use only if clear and seal is intact and undamaged. Cleanse stopper with antiseptic. Aseptically add to a suitable intravenous solution. Contains no bacteriostat. Use promptly.

Store at 20° to 25°C (68° to 77°F) [see USP Controlled Room Temperature].

Distributed by: **Glenmark Pharmaceuticals Inc., USA**
Elimwood Park, NJ 07407

Product of India
Code: TN/Drugs/TN00003457

09/25
22201406



No varnish area

SODIUM PHOSPHATES

sodium phosphates injection, solution

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:68462-728
Route of Administration	INTRAVENOUS		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
SODIUM PHOSPHATE, MONOBASIC, MONOHYDRATE (UNII: 593YOG76RN) (PHOSPHATE ION - UNII:NK08V8K8HR, SODIUM CATION - UNII:LYR4M0NH37)	SODIUM PHOSPHATE, MONOBASIC, MONOHYDRATE	276 mg in 1 mL
SODIUM PHOSPHATE, DIBASIC, HEPTAHYDRATE (UNII: 70WT22SF4B) (PHOSPHATE ION - UNII:NK08V8K8HR, SODIUM CATION - UNII:LYR4M0NH37)	SODIUM PHOSPHATE, DIBASIC, HEPTAHYDRATE	268 mg in 1 mL

Inactive Ingredients

Ingredient Name	Strength
WATER (UNII: 059QF0KO0R)	

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:68462-728-25	25 in 1 CARTON	02/23/2026	
1	NDC:68462-728-05	5 mL in 1 VIAL, SINGLE-DOSE; Type 0: Not a Combination Product		

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA220683	02/23/2026	

SODIUM PHOSPHATES

sodium phosphates injection, solution

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:68462-729
Route of Administration	INTRAVENOUS		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
SODIUM PHOSPHATE, MONOBASIC, MONOHYDRATE (UNII: 593YOG76RN) (PHOSPHATE ION - UNII:NK08V8K8HR, SODIUM CATION - UNII:LYR4M0NH37)	SODIUM PHOSPHATE, MONOBASIC, MONOHYDRATE	276 mg in 1 mL
SODIUM PHOSPHATE, DIBASIC, HEPTAHYDRATE (UNII: 70WT22SF4B) (PHOSPHATE ION - UNII:NK08V8K8HR, SODIUM CATION - UNII:LYR4M0NH37)	SODIUM PHOSPHATE, DIBASIC, HEPTAHYDRATE	268 mg in 1 mL

Inactive Ingredients

Ingredient Name	Strength
WATER (UNII: 059QF0KO0R)	

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:68462-729-25	25 in 1 CARTON	02/23/2026	
1	NDC:68462-729-15	15 mL in 1 VIAL, SINGLE-DOSE; Type 0: Not a Combination Product		

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA220683	02/23/2026	

SODIUM PHOSPHATES

sodium phosphates injection, solution

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:68462-730
Route of Administration	INTRAVENOUS		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
SODIUM PHOSPHATE, MONOBASIC, MONOHYDRATE (UNII: 593YOG76RN) (PHOSPHATE ION - UNII:NK08V8K8HR, SODIUM CATION - UNII:LYR4M0NH37)	SODIUM PHOSPHATE, MONOBASIC, MONOHYDRATE	276 mg in 1 mL
SODIUM PHOSPHATE, DIBASIC, HEPTAHYDRATE (UNII: 70WT22SF4B) (PHOSPHATE ION - UNII:NK08V8K8HR, SODIUM CATION - UNII:LYR4M0NH37)	SODIUM PHOSPHATE, DIBASIC, HEPTAHYDRATE	268 mg in 1 mL

Inactive Ingredients

Ingredient Name	Strength
WATER (UNII: 059QF0KO0R)	

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:68462-730-25	25 in 1 CARTON	02/23/2026	
1	NDC:68462-730-50	50 mL in 1 VIAL, SINGLE-DOSE; Type 0: Not a Combination Product		

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA220683	02/23/2026	

Labeler - GLENMARK PHARMACEUTICALS INC., USA (130597813)

Establishment

Name	Address	ID/FEI	Business Operations
Caplin Steriles Limited		650744670	ANALYSIS(68462-728, 68462-729, 68462-730) , MANUFACTURE(68462-728, 68462-729, 68462-730) , PACK(68462-728, 68462-729, 68462-730)

Revised: 3/2026

GLENMARK PHARMACEUTICALS INC., USA