

POTASSIUM CHLORIDE IN DEXTROSE AND SODIUM CHLORIDE - dextrose monohydrate, sodium chloride, and potassium chloride injection, solution
Fresenius Kabi USA, LLC

POTASSIUM CHLORIDE IN DEXTROSE AND SODIUM CHLORIDE



R_x only

Potassium Chloride in 5% Dextrose and 0.45% Sodium Chloride Injection, USP
Flexible Plastic Container

DESCRIPTION

Intravenous solutions with potassium chloride (I.V. solutions with KCl) are sterile and nonpyrogenic solutions in water for injection. They are for administration by intravenous infusion only.

See table below for summary of content and characteristics of these solutions.

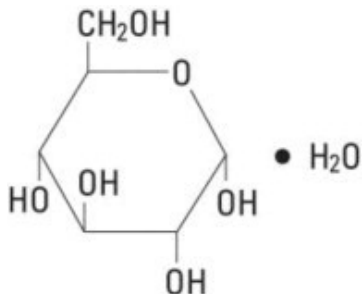
Table 1		COMPOSITION (g/L)				Approx. Ionic Concentrations (mEq/L)				
Potassium Chloride in 5% Dextrose and 0.45% Sodium Chloride Injection, USP										
mEq Potassium	Size (mL)	Dextrose, Hydrous	Sodium Chloride	Potassium Chloride	Calculated Osmolarity (mOsmol/L)	pH	Sodium (Na ⁺)	Potassium (K ⁺)	Chloride (Cl ⁻)	Approximate Kcal/L
10 mEq	500	50	4.5	1.49	447	4.2 (3.5 to 6.5)	77	20	97	170
10 mEq	1000	50	4.5	0.745	426	4.2 (3.5 to 6.5)	77	10	87	170
20 mEq	1000	50	4.5	1.49	447	4.2 (3.5 to 6.5)	77	20	97	170
30 mEq	1000	50	4.5	2.24	467	4.2 (3.5 to 6.5)	77	30	107	170
40 mEq	1000	50	4.5	2.98	487	4.2 (3.5 to 6.5)	77	40	117	170

May contain HCl for pH adjustment.

The solutions contain no bacteriostat, antimicrobial agent or added buffer and each is intended only for use as a single-dose injection. When smaller doses are required the unused portion should be discarded.

These solutions are parenteral fluid, nutrient and/or electrolyte replenishers.

Dextrose, USP is chemically designated D-glucose, monohydrate ($C_6H_{12}O_6 \cdot H_2O$), a hexose sugar freely soluble in water. It has the following structural formula:



Potassium Chloride, USP is chemically designated KCl, a white granular powder freely soluble in water.

Sodium Chloride, USP is chemically designated NaCl, a white crystalline powder freely soluble in water.

Water for Injection, USP is chemically designated H_2O .

The flexible plastic container is fabricated from a specially formulated non-plasticized, film containing polypropylene and thermoplastic elastomers (**freeflex**® bag). Water can permeate from inside the container into the overwrap but not in amounts sufficient to affect the solution significantly. Solutions in contact with the plastic container may leach out certain chemical components from the plastic in very small amounts; however, biological testing was supportive of the safety of the plastic container materials. Exposure to temperatures above $25^{\circ}C/77^{\circ}F$ during transport and storage will lead to minor losses in the moisture content. Higher temperatures lead to greater losses. It is unlikely that these minor losses will lead to clinically significant changes within the expiration period.

CLINICAL PHARMACOLOGY

When administered intravenously, these solutions provide a source of water and potassium chloride with carbohydrate (dextrose) and sodium chloride. See **HOW SUPPLIED** section for specific concentrations of these various solutions.

Solutions containing carbohydrate in the form of dextrose restore blood glucose levels and provide calories. Carbohydrate in the form of dextrose may aid in minimizing liver glycogen depletion and exerts a protein-sparing action. Dextrose injected parenterally undergoes oxidation to carbon dioxide and water.

Intravenous solutions containing potassium chloride are particularly intended to provide needed potassium cation (K^+). Potassium is the chief cation of body cells (160 mEq/liter of intracellular water). It is found in low concentration in plasma and extracellular fluids (3.5 to 5.0 mEq/liter in a healthy adult). Potassium plays an important role in electrolyte balance. Normally about 80 to 90% of the potassium intake is excreted in the urine; the remainder in the stools and to a small extent, in the perspiration. The kidney does not conserve potassium well so that during fasting or in patients on a potassium-free diet, potassium loss from the body continues resulting in potassium depletion. A deficiency of either potassium or chloride will lead to a deficit of the other.

Sodium chloride in water dissociates to provide sodium (Na^+) and chloride (Cl^-) ions. Sodium (Na^+) is the principal cation of the extracellular fluid and plays a large part in the therapy of fluid and electrolyte disturbances. Chloride (Cl^-) has an integral role in buffering action when oxygen and carbon dioxide exchange occurs in the red blood cells. The distribution and excretion of sodium (Na^+) and chloride (Cl^-) are largely under the control of the kidney which maintains a balance between intake and output.

Water is an essential constituent of all body tissues and accounts for approximately 70% of total body weight. Average normal adult daily requirement ranges from two to three liters (1.0 to 1.5 liters each for insensible water loss by perspiration and urine production).

Water balance is maintained by various regulatory mechanisms. Water distribution depends primarily on the concentration of electrolytes in the body compartments and sodium (Na^+) plays a major role in maintaining physiologic equilibrium.

INDICATIONS AND USAGE

These solutions are indicated in patients requiring parenteral administration of potassium chloride with minimal carbohydrate calories and sodium chloride.

CONTRAINDICATIONS

Solutions containing potassium chloride are contraindicated in diseases where high potassium levels may be encountered.

WARNINGS

Solutions which contain potassium ions should be used with great care, if at all, in patients with hyperkalemia, severe renal failure and in conditions in which potassium retention is present.

To avoid potassium intoxication, do not infuse these solutions rapidly. In patients with severe renal insufficiency or adrenal insufficiency, administration of potassium chloride may cause potassium intoxication.

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 or potassium ions may result in sodium or potassium retention.

The intravenous administration of these solutions can cause fluid and/or solute overloading resulting in dilution of serum electrolyte concentrations, overhydration, congested states or pulmonary edema.

The risk of dilutional states is inversely proportional to the electrolyte concentration of administered parenteral solutions. The risk of solute overload causing congested states with peripheral and pulmonary edema is directly proportional to the electrolyte concentrations of such solutions.

PRECAUTIONS

Clinical evaluation and periodic laboratory determinations are necessary to monitor changes in fluid balance, electrolyte concentrations and acid-base balance during prolonged parenteral therapy or whenever the condition of the patient warrants such

evaluation.

Solutions containing dextrose should be used with caution in patients with known subclinical or overt diabetes mellitus.

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

Potassium replacement therapy should be guided primarily by serial electrocardiograms. Plasma potassium levels are not necessarily indicative of tissue potassium levels.

High plasma concentrations of potassium may cause death through cardiac depression, arrhythmias or arrest.

Potassium-containing solutions should be used with caution in the presence of cardiac disease, particularly in digitalized patients or in the presence of renal disease.

Care should be exercised to insure that the needle (or catheter) is well within the lumen of the vein and that extravasation does not occur.

Do not administer unless solution is clear and container is undamaged. Discard unused portion.

Carcinogenesis, Mutagenesis, Impairment of Fertility:

Studies with solutions from flexible plastic containers have not been performed to evaluate carcinogenic potential, mutagenic potential or effects on fertility.

Pregnancy

Animal reproduction studies have not been conducted with dextrose, potassium chloride or sodium chloride. It is also not known whether dextrose, potassium chloride or sodium chloride can cause fetal harm when administered to a pregnant woman or can affect reproduction capacity. Dextrose, potassium chloride or sodium chloride should be given to a pregnant woman only if clearly needed.

Nursing Mothers:

Caution should be exercised when solutions from flexible plastic containers are administered to a nursing mother.

Pediatric Use:

The safety and effectiveness in the pediatric population are based on the similarity of the clinical conditions of the pediatric and adult populations. In neonates or very small infants the volume of fluid may affect fluid and electrolyte balance.

Frequent monitoring of serum glucose concentrations is required when dextrose is prescribed to pediatric patients, particularly neonates and low birth weight infants.

In very low birth weight infants, excessive or rapid administration of dextrose injection may result in increased serum osmolality and possible intracerebral hemorrhage.

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 and potassium ions are known to be substantially excreted by the kidney, and the risk of toxic reactions 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

Reactions which may occur because of the solutions or technique of administration include febrile response, infection at the site of injection, venous thrombosis or phlebitis extending from the site of injection, extravasation and hypervolemia.

If an adverse reaction does occur, discontinue the infusion, evaluate the patient, institute appropriate therapeutic countermeasures and save the remainder of the fluid for examination if deemed necessary.

Nausea, vomiting, abdominal pain and diarrhea have been reported with potassium therapy. The signs and symptoms of potassium intoxication include paresthesias of the extremities, flaccid paralysis, listlessness, mental confusion, weakness and heaviness of the legs, hypotension, cardiac arrhythmias, heart block, electrocardiographic abnormalities such as disappearance of P waves, spreading and slurring of the QRS complex with development of a biphasic curve and cardiac arrest.

Potassium-containing solutions are intrinsically irritating to tissues. Therefore, extreme care should be taken to avoid perivascular infiltration. Local tissue necrosis and subsequent sloughing may result if extravasation occurs. Chemical phlebitis and venospasm have also been reported.

Should perivascular infiltration occur, I.V. administration at that site should be discontinued at once. Local infiltration of the affected area with procaine hydrochloride, 1%, to which hyaluronidase may be added, will often reduce venospasm and dilute the potassium remaining in the tissues locally. Local application of heat may also be helpful.

To report SUSPECTED ADVERSE REACTIONS, contact Fresenius Kabi USA, LLC at 1-800-551-7176 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

OVERDOSAGE

In the event of potassium overdosage, discontinue the infusion immediately and institute intensive corrective therapy to reduce serum potassium levels. See **WARNINGS** and **PRECAUTIONS**.

DOSAGE AND ADMINISTRATION

These solutions should be administered only by intravenous infusion and as directed by the physician. The dose and rate of injection are dependent upon the age, weight and clinical condition of the patient. If the serum potassium level is greater than 2.5 mEq/liter, potassium should be given at a rate not to exceed 10 mEq/hour in a concentration less than 30 mEq/liter. Somewhat faster rates and greater concentrations (usually up to 40 mEq/liter) of potassium may be indicated in patients with more severe potassium deficiency. The total 24- hour dose should not generally exceed 200 mEq of potassium.

As reported in the literature, the dosage and constant infusion rate of intravenous dextrose must be selected with caution in pediatric patients, particularly neonates and low birth weight infants, because of the increased risk of hyperglycemia/hypoglycemia.

Drug Interactions

Additives may be incompatible. Consult with pharmacist, if available. When introducing additives, use aseptic technique, mix thoroughly and do not store.

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

HOW SUPPLIED

Potassium Chloride in 5% Dextrose and 0.45% Sodium Chloride Injection, USP is supplied in single-dose **freeflex**® plastic containers as follows:

Product Code	Unit of Use	Strength	Unit of Sale
245075	NDC 65219-150-00 One 500 mL freeflex ® bag	10 mEq Potassium Chloride	NDC 65219-150-75 Package of 20 freeflex ® bags
224210	NDC 65219-142-02 One 1000 mL freeflex ® bag	10 mEq Potassium Chloride	NDC 65219-142-10 Package of 10 freeflex ® bags
244410	NDC 65219-144-04 One 1000 mL freeflex ® bag	20 mEq Potassium Chloride	NDC 65219-144-10 Package of 10 freeflex ® bags
244610	NDC 65219-146-06 One 1000 mL freeflex ® bag	30 mEq Potassium Chloride	NDC 65219-146-10 Package of 10 freeflex ® bags
244810	NDC 65219-148-08 One 1000 mL freeflex ® bag	40 mEq Potassium Chloride	NDC 65219-148-10 Package of 10 freeflex ® bags

Avoid excessive heat. Store at 20 to 25°C (68 to 77°F). [See USP Controlled Room Temperature.] Protect from freezing.

The container closure is not made with natural rubber latex. Non-PVC, Non-DEHP, Sterile.

INSTRUCTIONS FOR USE

Check flexible container solution composition, lot number, and expiry date.

Do not remove solution container from its overwrap until immediately before use. Use sterile equipment and aseptic technique.

Flexible Plastic Container (**freeflex**® bag)

To Open

1. Turn solution container over so that the text is face down. Using the pre-cut corner tabs, peel open the overwrap and remove solution container.
2. Check the solution container for leaks by squeezing firmly. If leaks are found, or if the seal is not intact, discard the solution.
3. Do not use if the solution is cloudy or a precipitate is present.

To Add Medication

1. Identify WHITE Additive Port with arrow pointing toward container.
2. Immediately before injecting additives, break off WHITE Additive Port Cap with the arrow pointing toward container.
3. Hold base of WHITE Additive Port horizontally.
4. Insert needle horizontally through the center of WHITE Additive Port's septum and

inject additives.

5. Mix container contents thoroughly.

Preparation for Administration

1. Immediately before inserting the infusion set, break off BLUE Infusion Port Cap with the arrow pointing away from container.
2. Use a non-vented infusion set or close the air-inlet on a vented set.
3. Close the roller clamp of the infusion set.
4. Hold the base of BLUE Infusion Port.
5. Insert spike through BLUE Infusion Port by rotating wrist slightly until the spike is inserted. **NOTE:** See full directions accompanying administration set.

WARNING: Do not use flexible container in series connections.

Manufactured for:



Lake Zurich, Illinois 60047

Made in Norway

451750

www.fresenius-kabi.com/us

Issued: May 2022

PACKAGE LABEL - PRINCIPAL DISPLAY - 10 mEq POTASSIUM CHLORIDE in 5% Dextrose and 0.45% Sodium Chloride Injection, USP 1000 mL Bag Label

10 mEq POTASSIUM

1000 mL NDC 65219-**142**-02 **freeflex**®

**10
mEq**

**POTASSIUM
CHLORIDE**

in 5% Dextrose and
0.45% Sodium Chloride
Injection, USP

Rx Only

100

10 mEq POTASSIUM

1000 mL

NDC 65219-142-02

free flex[®]

200

**10
mEq**

POTASSIUM CHLORIDE

in 5% Dextrose and
0.45% Sodium Chloride
Injection, USP

Rx Only

300

Each 100 mL contains: Potassium Chloride 74.5 mg; Sodium Chloride 450 mg; Dextrose, Hydrous 5 g in Water for Injection. May contain HCl for pH adjustment.

400

Electrolytes per 1000 mL (not including ions for pH adjustment): Potassium 10 mEq; Sodium 77 mEq; Chloride 87 mEq. 426 mOsmol/L (Calc.) pH 4.2 (3.5 to 6.5)

ADDITIVES MAY BE INCOMPATIBLE. CONSULT WITH PHARMACIST, IF AVAILABLE. WHEN INTRODUCING ADDITIVES, USE ASEPTIC TECHNIQUE, MIX THOROUGHLY AND DO NOT STORE.

500

Single-Dose Container. For Intravenous Use. Discard Unused Portion.

Usual dosage: See package insert. The overwrap is a moisture barrier. Use immediately once removed from overwrap.

600

STORE AT: 20° to 25°C (68° to 77°F) [see USP Controlled Room Temperature]. Avoid excessive heat. Protect from freezing.

The container closure is not made with natural rubber latex.

Non-PVC, Non-DEHP, Sterile.

Manufactured for:



**FRESENIUS
KABI**

Lake Zurich, IL 60047
Made in Norway

403879

FUH 3314

01-62-16-017



(01)00365219142027

700

LOT NO


PACKAGE LABEL - PRINCIPAL DISPLAY - 10 mEq Potassium Chloride in 5% Dextrose and 0.45% Sodium Chloride Injection, USP Case Label**NDC 65219-142-10 224210****10
mEq****Potassium Chloride in 5% Dextrose and
0.45% Sodium Chloride Injection, USP****1000 mL x 10****Store at 20° to 25°C (68° to 77°F)****[see USP Controlled Room Temperature].****Protect from freezing. Avoid excessive heat.**

NDC 65219-142-10

224210

10
mEq


**Potassium Chloride in 5% Dextrose and
0.45% Sodium Chloride Injection, USP**
1000 mL x 10
Store at 20° to 25°C (68° to 77°F)
[see USP Controlled Room Temperature].
Protect from freezing. Avoid excessive heat.


Manufactured for:
 **FRESENIUS
KABI**
Lake Zurich, IL 60047
Made in Norway

QTY: 10

EXP: MM-YYYY

LOT: 0000000


(17) YYMMDD (10) 0000000 (30) 10


(01) 30365219142103

63879
FUH 3314
01-82-16-017

PACKAGE LABEL - PRINCIPAL DISPLAY - 20 mEq POTASSIUM CHLORIDE in 5% Dextrose and 0.45% Sodium Chloride Injection, USP 1000 mL Bag Label

20 mEq POTASSIUM

1000 mL NDC 65219-144-04 freeflex®

**20
mEq**

**POTASSIUM
CHLORIDE**

in 5% Dextrose and

0.45% Sodium Chloride
Injection, USP

Rx Only

100

20 mEq POTASSIUM

1000 mL

NDC 65219-144-04

free flex[®]

200

**20
mEq****POTASSIUM
CHLORIDE****in 5% Dextrose and
0.45% Sodium Chloride
Injection, USP**

300

Rx Only

Each 100 mL contains: Potassium Chloride 149 mg; Sodium Chloride 450 mg; Dextrose, Hydrous 5 g in Water for Injection. May contain HCl for pH adjustment.

Electrolytes per 1000 mL (not including ions for pH adjustment): Potassium 20 mEq; Sodium 77 mEq; Chloride 97 mEq. 447 mOsmol/L (Calc.) pH 4.2 (3.5 to 6.5)

400

ADDITIVES MAY BE INCOMPATIBLE. CONSULT WITH PHARMACIST, IF AVAILABLE. WHEN INTRODUCING ADDITIVES, USE ASEPTIC TECHNIQUE, MIX THOROUGHLY AND DO NOT STORE.

500

Single-Dose Container. For Intravenous Use.
Discard Unused Portion.

Usual dosage: See package insert.
The overwrap is a moisture barrier.
Use immediately once removed from overwrap.

600

STORE AT: 20° to 25°C (68° to 77°F) [see USP Controlled Room Temperature]. Avoid excessive heat. Protect from freezing.

The container closure is not made with natural rubber latex.

Non-PVC, Non-DEHP, Sterile.

Manufactured for:

700

**FRESENIUS
KABI**

Lake Zurich, IL 60047
Made in Norway

403878

FUH 3324
01-62-16-016


(01)00365219144045

LOT NO

PACKAGE LABEL - PRINCIPAL DISPLAY - 20 mEq Potassium Chloride in 5% Dextrose and 0.45% Sodium Chloride Injection, USP Case Label**NDC 65219-144-10 244410****20
mEq****Potassium Chloride in 5% Dextrose and
0.45% Sodium Chloride Injection, USP****1000 mL x 10****Store at 20° to 25°C (68° to 77°F)****[see USP Controlled Room Temperature].****Protect from freezing. Avoid excessive heat.**

NDC 65219-144-10


244410





20
mEq

**Potassium Chloride in 5% Dextrose and
0.45% Sodium Chloride Injection, USP**
1000 mL x 10
Store at 20° to 25°C (68° to 77°F)
[see USP Controlled Room Temperature].
Protect from freezing. Avoid excessive heat.

Manufactured for:

 **FRESENIUS
KABI**
Lake Zurich, IL 60047
Made in Norway


(17) YYMMDD (10) 0000000 (30) 10


(01) 30365219144107

QTY: 10

EXP: MM-YYYY

LOT: 0000000

63878
FUH 3324
01-82-16-016

PACKAGE LABEL - PRINCIPAL DISPLAY - 30 mEq POTASSIUM CHLORIDE in 5% Dextrose and 0.45% Sodium Chloride Injection, USP 1000 mL Bag Label**30 mEq POTASSIUM****1000 mL NDC 65219-146-06 freeflex®****30
mEq****POTASSIUM
CHLORIDE****in 5% Dextrose and**

0.45% Sodium Chloride
Injection, USP

Rx Only

100

30 mEq POTASSIUM

1000 mL

NDC 65219-146-06

free flex[®]

200

**30
mEq****POTASSIUM
CHLORIDE****in 5% Dextrose and
0.45% Sodium Chloride
Injection, USP**

300

Rx Only

Each 100 mL contains: Potassium Chloride 224 mg; Sodium Chloride 450 mg; Dextrose, Hydrous 5 g in Water for Injection. May contain HCl for pH adjustment.

Electrolytes per 1000 mL (not including ions for pH adjustment): Potassium 30 mEq; Sodium 77 mEq; Chloride 107 mEq. 467 mOsmol/L (Calc.) pH 4.2 (3.5 to 6.5)

400

ADDITIVES MAY BE INCOMPATIBLE. CONSULT WITH PHARMACIST, IF AVAILABLE. WHEN INTRODUCING ADDITIVES, USE ASEPTIC TECHNIQUE, MIX THOROUGHLY AND DO NOT STORE.

500

Single-Dose Container. For Intravenous Use.
Discard Unused Portion.

Usual dosage: See package insert.
The overwrap is a moisture barrier.
Use immediately once removed from overwrap.

600

STORE AT: 20° to 25°C (68° to 77°F) [see USP Controlled Room Temperature]. Avoid excessive heat. Protect from freezing.

403877

FUH 3334

01-62-16-018

The container closure is not made with natural rubber latex.

Non-PVC, Non-DEHP, Sterile.

Manufactured for:



(01)00365219146063

700

**FRESENIUS
KABI**

Lake Zurich, IL 60047
Made in Norway

LOT NO

PACKAGE LABEL - PRINCIPAL DISPLAY - 30 mEq Potassium Chloride in 5% Dextrose and 0.45% Sodium Chloride Injection, USP Case Label**NDC 65219-146-10 244610****30
mEq****Potassium Chloride in 5% Dextrose and
0.45% Sodium Chloride Injection, USP****1000 mL x 10****Store at 20° to 25°C (68° to 77°F)****[see USP Controlled Room Temperature].****Protect from freezing. Avoid excessive heat.**

NDC 65219-146-10

244610

30
mEq

**Potassium Chloride in 5% Dextrose and
0.45% Sodium Chloride Injection, USP**


1000 mL x 10

Store at 20° to 25°C (68° to 77°F)

[see USP Controlled Room Temperature].


Protect from freezing. Avoid excessive heat.


Manufactured for:


 **FRESENIUS
KABI**

Lake Zurich, IL 60047

Made in Norway




(17) YYMMDD (10) 0000000 (30) 10


(01) 30365219146101

QTY: 10

EXP: MM-YYYY

LOT: 0000000

63877

FUH 3334

01-82-16-018

PACKAGE LABEL - PRINCIPAL DISPLAY - 40 mEq POTASSIUM CHLORIDE in 5% Dextrose and 0.45% Sodium Chloride Injection, USP 1000 mL Bag Label**40 mEq POTASSIUM****1000 mL NDC 65219-148-08 freeflex®****40
mEq****POTASSIUM
CHLORIDE****in 5% Dextrose and**

0.45% Sodium Chloride
Injection, USP

Rx Only

100

40 mEq POTASSIUM

1000 mL

NDC 65219-148-08

free flex[®]

200

**40
mEq****POTASSIUM
CHLORIDE****in 5% Dextrose and
0.45% Sodium Chloride
Injection, USP**

Rx Only

300

Each 100 mL contains: Potassium Chloride 298 mg; Sodium Chloride 450 mg; Dextrose, Hydrous 5 g in Water for Injection. May contain HCl for pH adjustment.

Electrolytes per 1000 mL (not including ions for pH adjustment): Potassium 40 mEq; Sodium 77 mEq; Chloride 117 mEq. 487 mOsmol/L (Calc.) pH 4.2 (3.5 to 6.5)

400

ADDITIVES MAY BE INCOMPATIBLE. CONSULT WITH PHARMACIST, IF AVAILABLE. WHEN INTRODUCING ADDITIVES, USE ASEPTIC TECHNIQUE, MIX THOROUGHLY AND DO NOT STORE.

500

Single-Dose Container. For Intravenous Use.
Discard Unused Portion.

Usual dosage: See package insert.
The overwrap is a moisture barrier.
Use immediately once removed from overwrap.

600

STORE AT: 20° to 25°C (68° to 77°F) [see USP Controlled Room Temperature]. Avoid excessive heat. Protect from freezing.

403876

FUH 3344

01-62-16-019

The container closure is not made with natural rubber latex.

Non-PVC, Non-DEHP, Sterile.

Manufactured for:



(01)00365219148081

700

**FRESENIUS
KABI**

Lake Zurich, IL 60047
Made in Norway

LOT NO


PACKAGE LABEL - PRINCIPAL DISPLAY - 40 mEq Potassium Chloride in 5% Dextrose and 0.45% Sodium Chloride Injection, USP Case Label**NDC 65219-148-10 244810****40
mEq****Potassium Chloride in 5% Dextrose and
0.45% Sodium Chloride Injection, USP****1000 mL x 10****Store at 20° to 25°C (68° to 77°F)****[see USP Controlled Room Temperature].****Protect from freezing. Avoid excessive heat.**

NDC 65219-148-10

244810

40
mEq


**Potassium Chloride in 5% Dextrose and
0.45% Sodium Chloride Injection, USP**
1000 mL x 10
Store at 20° to 25°C (68° to 77°F)
[see USP Controlled Room Temperature].
Protect from freezing. Avoid excessive heat.


Manufactured for:
 **FRESENIUS
KABI**
Lake Zurich, IL 60047
Made in Norway

QTY: 10

EXP: MM-YYYY

LOT: 0000000


(17) YYMMDD (10) 0000000 (30) 10


(01) 30365219148105

63876
FUH 3344
01-82-16-019

PACKAGE LABEL - PRINCIPAL DISPLAY - 10 mEq POTASSIUM CHLORIDE in 5% Dextrose and 0.45% Sodium Chloride Injection, USP 500 mL Bag Label**10 mEq POTASSIUM****500 mL NDC 65219-150-00 freeflex®****10
mEq****POTASSIUM
CHLORIDE****in 5% Dextrose and**

0.45% Sodium Chloride
Injection, USP

Rx Only

10 mEq POTASSIUM

500 mL

NDC 65219-150-00

free flex[®]

100

**10
mEq**

POTASSIUM CHLORIDE

in 5% Dextrose and
0.45% Sodium Chloride
Injection, USP

Rx Only

200

Each 100 mL contains: Potassium Chloride 149 mg; Sodium Chloride 450 mg; Dextrose, Hydrous 5 g in Water for Injection. May contain HCl for pH adjustment.

Electrolytes per 1000 mL (not including ions for pH adjustment):
Potassium 20 mEq; Sodium 77 mEq; Chloride 97 mEq.
447 mOsmol/L (Calc.) pH 4.2 (3.5 to 6.5)

300

ADDITIVES MAY BE INCOMPATIBLE. CONSULT WITH PHARMACIST,
IF AVAILABLE. WHEN INTRODUCING ADDITIVES, USE ASEPTIC
TECHNIQUE, MIX THOROUGHLY AND DO NOT STORE.

Single-Dose Container. For Intravenous Use.
Discard Unused Portion.

400

Usual dosage: See package insert.
The overwrap is a moisture barrier.
Use immediately once removed from overwrap.

STORE AT: 20° to 25°C (68° to 77°F) [see USP
Controlled Room Temperature]. Avoid excessive heat.
Protect from freezing.

The container closure is not made with natural
rubber latex.

Non-PVC, Non-DEHP, Sterile.

Manufactured for:

**FRESENIUS
KABI**

Lake Zurich, IL 60047

Made in Norway

www.fresenius-kabi.com/us

403880

FUH 3303

01-62-16-015



(01)00365219150008

LOT NO

EXP DATE

PACKAGE LABEL - PRINCIPAL DISPLAY - 10 mEq Potassium Chloride in 5% Dextrose and 0.45% Sodium Chloride Injection, USP Case Label

NDC 65219-150-75 245075

**10
mEq**

**Potassium Chloride in 5% Dextrose and
0.45% Sodium Chloride Injection, USP**

500 mL x 20

Store at 20° to 25°C (68° to 77°F)

[see USP Controlled Room Temperature].

Protect from freezing. Avoid excessive heat.

NDC 65219-150-75

245075

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[see USP Controlled Room Temperature].

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Manufactured for:

FRESENIUS KABI

Lake Zurich, IL 60047

Made in Norway

{ 17 } YYMMDD { 10 } 0000000 { 30 } 20

{ 01 } 30365219150757

QTY: 20

EXP: MM-YYYY

LOT: 0000000

63880

FUH 3303

01-82-16-015

POTASSIUM CHLORIDE IN DEXTROSE AND SODIUM CHLORIDE			
dextrose monohydrate, sodium chloride, and potassium chloride injection, solution			
Product Information			
Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:65219-142
Route of Administration	INTRAVENOUS		
Active Ingredient/Active Moiety			
Ingredient Name		Basis of Strength	Strength
DEXTROSE MONOHYDRATE (UNII: LX22YL083G) (ANHYDROUS DEXTROSE -		DEXTROSE	50 g

UNII:5SL0G7R0OK)		MONOHYDRATE	in 1000 mL	
SODIUM CHLORIDE (UNII: 451W47IQ8X) (SODIUM CATION - UNII:LYR4M0NH37, CHLORIDE ION - UNII:Q32ZN48698)		SODIUM CHLORIDE	4.5 g in 1000 mL	
POTASSIUM CHLORIDE (UNII: 660YQ98I10) (POTASSIUM CATION - UNII:295O53K152, CHLORIDE ION - UNII:Q32ZN48698)		POTASSIUM CHLORIDE	0.745 g in 1000 mL	
Inactive Ingredients				
Ingredient Name			Strength	
WATER (UNII: 059QF0KO0R)				
HYDROCHLORIC ACID (UNII: QTT17582CB)				
Packaging				
#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:65219-142-10	10 in 1 CASE	08/26/2022	
1	NDC:65219-142-02	1000 mL in 1 BAG; Type 2: Prefilled Drug Delivery Device/System (syringe, patch, etc.)		
Marketing Information				
Marketing Category		Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA		ANDA213523	08/26/2022	

POTASSIUM CHLORIDE IN DEXTROSE AND SODIUM CHLORIDE

dextrose monohydrate, sodium chloride, and potassium chloride injection, solution

Product Information			
Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:65219-144
Route of Administration	INTRAVENOUS		
Active Ingredient/Active Moiety			
Ingredient Name		Basis of Strength	Strength
DEXTROSE MONOHYDRATE (UNII: LX22YL083G) (ANHYDROUS DEXTROSE - UNII:5SL0G7R0OK)		DEXTROSE MONOHYDRATE	50 g in 1000 mL
SODIUM CHLORIDE (UNII: 451W47IQ8X) (SODIUM CATION - UNII:LYR4M0NH37, CHLORIDE ION - UNII:Q32ZN48698)		SODIUM CHLORIDE	4.5 g in 1000 mL
POTASSIUM CHLORIDE (UNII: 660YQ98I10) (POTASSIUM CATION - UNII:295O53K152, CHLORIDE ION - UNII:Q32ZN48698)		POTASSIUM CHLORIDE	1.49 g in 1000 mL
Inactive Ingredients			
Ingredient Name			Strength
WATER (UNII: 059QF0KO0R)			
HYDROCHLORIC ACID (UNII: QTT17582CB)			
Packaging			

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:65219-144-10	10 in 1 CASE	08/26/2022	
1	NDC:65219-144-04	1000 mL in 1 BAG; Type 2: Prefilled Drug Delivery Device/System (syringe, patch, etc.)		

Marketing Information			
Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA213523	08/26/2022	

POTASSIUM CHLORIDE IN DEXTROSE AND SODIUM CHLORIDE				
dextrose monohydrate, sodium chloride, and potassium chloride injection, solution				
Product Information				
Product Type		HUMAN PRESCRIPTION DRUG	Item Code (Source)	
Route of Administration		INTRAVENOUS	NDC:65219-146	
Active Ingredient/Active Moiety				
Ingredient Name			Basis of Strength	Strength
DEXTROSE MONOHYDRATE (UNII: LX22YL083G) (ANHYDROUS DEXTROSE - UNII:5SL0G7R0OK)			DEXTROSE MONOHYDRATE	50 g in 1000 mL
SODIUM CHLORIDE (UNII: 451W47IQ8X) (SODIUM CATION - UNII:LYR4M0NH37, CHLORIDE ION - UNII:Q32ZN48698)			SODIUM CHLORIDE	4.5 g in 1000 mL
POTASSIUM CHLORIDE (UNII: 660YQ98I10) (POTASSIUM CATION - UNII:295O53K152, CHLORIDE ION - UNII:Q32ZN48698)			POTASSIUM CHLORIDE	2.24 g in 1000 mL
Inactive Ingredients				
Ingredient Name			Strength	
WATER (UNII: 059QF0KO0R)				
HYDROCHLORIC ACID (UNII: QTT17582CB)				
Packaging				
#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:65219-146-10	10 in 1 CASE	08/26/2022	
1	NDC:65219-146-06	1000 mL in 1 BAG; Type 2: Prefilled Drug Delivery Device/System (syringe, patch, etc.)		
Marketing Information				
Marketing Category		Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA		ANDA213523	08/26/2022	

POTASSIUM CHLORIDE IN DEXTROSE AND SODIUM CHLORIDE

dextrose monohydrate, sodium chloride, and potassium chloride injection, solution

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:65219-148
Route of Administration	INTRAVENOUS		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
DEXTROSE MONOHYDRATE (UNII: LX22YL083G) (ANHYDROUS DEXTROSE - UNII:5SL0G7R0OK)	DEXTROSE MONOHYDRATE	50 g in 1000 mL
SODIUM CHLORIDE (UNII: 451W47IQ8X) (SODIUM CATION - UNII:LYR4M0NH37, CHLORIDE ION - UNII:Q32ZN48698)	SODIUM CHLORIDE	4.5 g in 1000 mL
POTASSIUM CHLORIDE (UNII: 660YQ98I10) (POTASSIUM CATION - UNII:295O53K152, CHLORIDE ION - UNII:Q32ZN48698)	POTASSIUM CHLORIDE	2.98 g in 1000 mL

Inactive Ingredients

Ingredient Name	Strength
WATER (UNII: 059QF0K00R)	
HYDROCHLORIC ACID (UNII: QTT17582CB)	

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:65219-148-10	10 in 1 CASE	08/26/2022	
1	NDC:65219-148-08	1000 mL in 1 BAG; Type 2: Prefilled Drug Delivery Device/System (syringe, patch, etc.)		

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA213523	08/26/2022	

POTASSIUM CHLORIDE IN DEXTROSE AND SODIUM CHLORIDE

dextrose monohydrate, sodium chloride, and potassium chloride injection, solution

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:65219-150
Route of Administration	INTRAVENOUS		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
DEXTROSE MONOHYDRATE (UNII: LX22YL083G) (ANHYDROUS DEXTROSE - UNII:5SL0G7R0OK)	DEXTROSE MONOHYDRATE	25 g in 500 mL

SODIUM CHLORIDE (UNII: 451W47IQ8X) (SODIUM CATION - UNII:LYR4M0NH37, CHLORIDE ION - UNII:Q32ZN48698)		SODIUM CHLORIDE	2.25 g in 500 mL	
POTASSIUM CHLORIDE (UNII: 660YQ98I10) (POTASSIUM CATION - UNII:295O53K152, CHLORIDE ION - UNII:Q32ZN48698)		POTASSIUM CHLORIDE	0.745 g in 500 mL	
Inactive Ingredients				
Ingredient Name			Strength	
WATER (UNII: 059QF0KO0R)				
HYDROCHLORIC ACID (UNII: QTT17582CB)				
Packaging				
#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:65219-150-75	20 in 1 CASE	10/11/2022	
1	NDC:65219-150-00	500 mL in 1 BAG; Type 2: Prefilled Drug Delivery Device/System (syringe, patch, etc.)		
Marketing Information				
Marketing Category		Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA		ANDA213523	08/26/2022	

Labeler - Fresenius Kabi USA, LLC (013547657)

Establishment			
Name	Address	ID/FEI	Business Operations
HP Halden Pharma AS		347747373	ANALYSIS(65219-142, 65219-144, 65219-146, 65219-148, 65219-150) , MANUFACTURE(65219-142, 65219-144, 65219-146, 65219-148, 65219-150) , PACK(65219-142, 65219-144, 65219-146, 65219-148, 65219-150)