

SODIUM BICARBONATE- sodium bicarbonate injection, solution
HF Acquisition Co LLC, DBA HealthFirst

Disclaimer: This drug has not been found by FDA to be safe and effective, and this labeling has not been approved by FDA. For further information about unapproved drugs, click here.

SODIUM BICARBONATE INJECTION, USP, 8.4% 50 mEq (1 mEq PER mL)

SPL UNCLASSIFIED

Sodium Bicarbonate
Injection, USP 4.2%

Sodium Bicarbonate
Injection, USP 8.4%

4.2% Sodium Bicarbonate 0.5 mEq/mL Injection , USP 5 mL Single Dose Vial and

8.4% Sodium Bicarbonate 1 mEq/mL Injection , USP 50 mL Single Dose Vial

DESCRIPTION

Sodium Bicarbonate Injection, USP is a sterile, nonpyrogenic, hypertonic solution of Sodium Bicarbonate (NaHCO₃), USP, in Water for Injection for administration by the intravenous route as an electrolyte replenisher and systemic alkalizer. pH of the solution is 7.0 to 8.5.

Solutions are offered in concentrations of 4.2% and 8.4%. See table in HOW SUPPLIED/STORAGE AND HANDLING section for contents and characteristics.

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

Sodium Bicarbonate, 84 mg is equal to one milliequivalent each of Na⁺ and HCO₃⁻. Sodium Bicarbonate, USP is chemically designated NaHCO₃, a white crystalline powder soluble in water.

Water for Injection, USP is chemically designated H₂O.

CLINICAL PHARMACOLOGY

Intravenous sodium bicarbonate therapy increases plasma bicarbonate, buffers excess hydrogen ion concentration, raises blood pH and reverses the clinical manifestations of acidosis.

Sodium bicarbonate in water dissociates to provide sodium (Na⁺) and bicarbonate (HCO₃⁻) ions.

Sodium (Na⁺) is the principal cation of the extracellular fluid and plays a large part in the therapy of fluid and electrolyte disturbances. Bicarbonate (HCO₃⁻) is a normal

constituent of body fluids and the normal plasma level ranges from 24 to 31 mEq/liter. Plasma concentration is regulated by the kidney through acidification of the urine when there is a deficit or by alkalization of the urine when there is an excess. Bicarbonate anion is considered “labile” since at a proper concentration of hydrogen ion (H^+) it may be converted to carbonic acid (H_2CO_3) and thence to its volatile form, carbon dioxide (CO_2) excreted by the lung. Normally a ratio of 1:20 (carbonic acid: bicarbonate) is present in the extracellular fluid. In a healthy adult with normal kidney function, practically all the glomerular filtered bicarbonate ion is reabsorbed; less than 1% excreted in the urine.

INDICATIONS & USAGE

Sodium Bicarbonate Injection, USP is indicated in the treatment of metabolic acidosis which may occur in severe renal disease, uncontrolled diabetes, circulatory insufficiency due to shock or severe dehydration, extracorporeal circulation of blood, cardiac arrest and severe primary lactic acidosis. Sodium bicarbonate is further indicated in the treatment of certain drug intoxications, including barbiturates (where dissociation of the barbiturate-protein complex is desired), in poisoning by salicylates or methyl alcohol and in hemolytic reactions requiring alkalization of the urine to diminish nephrotoxicity of blood pigments. Sodium bicarbonate also is indicated in severe diarrhea which is often accompanied by a significant loss of bicarbonate.

Treatment of metabolic acidosis should, if possible, be superimposed on measures designed to control the basic cause of the acidosis — e.g., insulin in uncomplicated diabetes, blood volume

restoration in shock. But since an appreciable time interval may elapse before all of the ancillary effects are brought about, bicarbonate therapy is indicated to minimize risks inherent to the acidosis itself.

Vigorous bicarbonate therapy is required in any form of metabolic acidosis where a rapid increase in plasma total CO_2 content is crucial — e.g., cardiac arrest, circulatory insufficiency due to shock or severe dehydration, and in severe primary lactic acidosis or severe diabetic acidosis.

CONTRAINDICATION

Sodium Bicarbonate Injection, USP is contraindicated in patients who are losing chloride by vomiting or from continuous gastrointestinal suction, and in patients receiving diuretics known to produce a hypochloremic alkalosis.

WARNINGS

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.

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.

Extravascular infiltration should be avoided, see ADVERSE REACTIONS.

PRECAUTIONS

The potentially large loads of sodium given with bicarbonate require that caution be exercised in the use of sodium bicarbonate in patients with congestive heart failure or other edematous or sodium retaining states, as well as in patients with oliguria or anuria. See table in HOW SUPPLIED/STORAGE AND HANDLING section for amounts of sodium present in solutions.

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

Potassium depletion may predispose to metabolic alkalosis and coexistent hypocalcemia may be associated with carpopedal spasm as the plasma pH rises. These dangers can be minimized if such electrolyte imbalances are appropriately treated prior to or concomitantly with bicarbonate infusion.

Rapid injection (10 mL/min.) of hypertonic Sodium Bicarbonate Injection, USP, solutions into neonates and children under two years of age may produce hypernatremia, a decrease in cerebrospinal fluid pressure and possible intracranial hemorrhage. The rate of administration in such patients should therefore be limited to no more than 8 mEq/kg/day. A solution diluted to 4.2% may be preferred for such slow administration. In emergencies such as cardiac arrest, the risk of rapid infusion must be weighed against the potential for fatality due to acidosis.

Drug Interactions

Additives may be incompatible; norepinephrine and dobutamine are incompatible with sodium bicarbonate solution.

The addition of sodium bicarbonate to parenteral solutions containing calcium should be avoided, except where compatibility has been previously established. Precipitation or haze may result from sodium bicarbonate-calcium admixtures. Note: Do not use the injection if it contains precipitate.

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

Laboratory Tests

The aim of all bicarbonate therapy is to produce a substantial correction of the low total CO₂ content and blood pH, but the risks of overdosage and alkalosis should be avoided. Hence, repeated fractional doses and periodic monitoring by appropriate laboratory tests are recommended to minimize the possibility of overdosage.

Pregnancy Category C:

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

ADVERSE REACTIONS

Overly aggressive therapy with Sodium Bicarbonate Injection, USP can result in metabolic alkalosis (associated with muscular twitchings, irritability and tetany) and hypernatremia.

Inadvertent extravasation of intravenously administered hypertonic solutions of sodium bicarbonate have been reported to cause chemical cellulitis because of their alkalinity, with tissue necrosis, ulceration or sloughing at the site of infiltration. Prompt elevation of the part, warmth and local injection of lidocaine or hyaluronidase are recommended to prevent sloughing of extravasated IV infusions.

OVERDOSAGE

Should alkalosis result, the bicarbonate should be stopped and the patient managed according to the degree of alkalosis present. 0.9% sodium chloride injection intravenous may be given; potassium chloride also may be indicated if there is hypokalemia. Severe alkalosis may be accompanied by hyperirritability or tetany and these symptoms may be controlled by calcium gluconate. An acidifying agent such as ammonium chloride may also be indicated in severe alkalosis. See WARNINGS and PRECAUTIONS.

DOSAGE & ADMINISTRATION

Sodium Bicarbonate Injection, USP is administered by the intravenous route.

In cardiac arrest, a rapid intravenous dose of 200 to 300 mEq of bicarbonate, given as a 4.2% or 8.4% solution is suggested for adults. Cautions should be observed in emergencies where very rapid infusion of large quantities of bicarbonate is indicated. Bicarbonate solutions are hypertonic and may produce an undesirable rise in plasma sodium concentration in the process of correcting the metabolic acidosis. In cardiac arrest, however, the risks from acidosis exceed those of hypernatremia.

In infants (up to two years of age), intravenous administration at a dose not to exceed 8 mEq/kg/day is recommended. Slow administration rates and a solution of 4.2% are recommended in neonates, to guard against the possibility of producing hypernatremia, decreasing cerebrospinal fluid pressure and inducing intracranial hemorrhage.

In less urgent forms of metabolic acidosis, Sodium Bicarbonate Injection, USP may be added to other intravenous fluids. The amount of bicarbonate to be given to older children and adults over a four- to eight- hour period is approximately 2 to 5 mEq/kg of body weight — depending upon the severity of the acidosis as judged by the lowering of total CO₂ content, blood pH and clinical condition of the patient. Bicarbonate therapy should always be planned in a stepwise fashion since the degree of response from a given dose is not precisely predictable. Initially an infusion of 2 to 5 mEq/kg body weight over a period of 4 to 8 hours will produce a measurable improvement in the abnormal acidbase status of the blood. The next step of therapy is dependent upon the clinical response of the patient. If severe symptoms have abated, then the frequency of administration and the size of the dose may be reduced.

In general, it is unwise to attempt full correction of a low total CO₂ content during the first 24 hours of therapy, since this may be accompanied by an unrecognized alkalosis

because of a delay in the readjustment of ventilation to normal. Owing to this lag, the achievement of total CO₂ content of about 20 mEq/liter at the end of the first day of therapy will usually be associated with a normal blood pH. Further modification of the acidosis to completely normal values usually occurs in the presence of normal kidney function when and if the cause of the acidosis can be controlled. Values for total CO₂ which are brought to normal or above normal within the first day of therapy are very likely to be associated with grossly alkaline values for blood pH, with ensuing undesired side effects.

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

Do not use unless solution is clear and the container or seal is intact. Discard unused portion.

HOW SUPPLIED

SODIUM BICARBONATE INJECTION, USP is supplied in the following dosage forms.

NDC 51662-1573-1 SODIUM BICARBONATE INJECTION, USP, 8.4% 50 mEq (1 mEq PER mL) 50mL VIAL

NDC 51662-1573-2 SODIUM BICARBONATE INJECTION, USP, 8.4% 50 mEq (1 mEq PER mL) 50mL VIAL IN A POUCH

NDC 51662-1573-3 SODIUM BICARBONATE INJECTION, USP, 8.4% 50 mEq (1 mEq PER mL) 50mL VIAL IN A POUCH, 25 POUCHES IN A CASE

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

Also supplied in the following manufacture supplied dosage forms,

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

HF Acquisition Co LLC, DBA HealthFirst
11629 49th PI W.

Mukilteo, WA 98275

PRINCIPAL DISPLAY PANEL - VIAL LABEL

VIAL LABEL

NDC 63323-089-50

Sodium Bicarbonate

Injection, USP, 8.4%

50 mEq
(1 mEq per mL)

For intravenous use only.

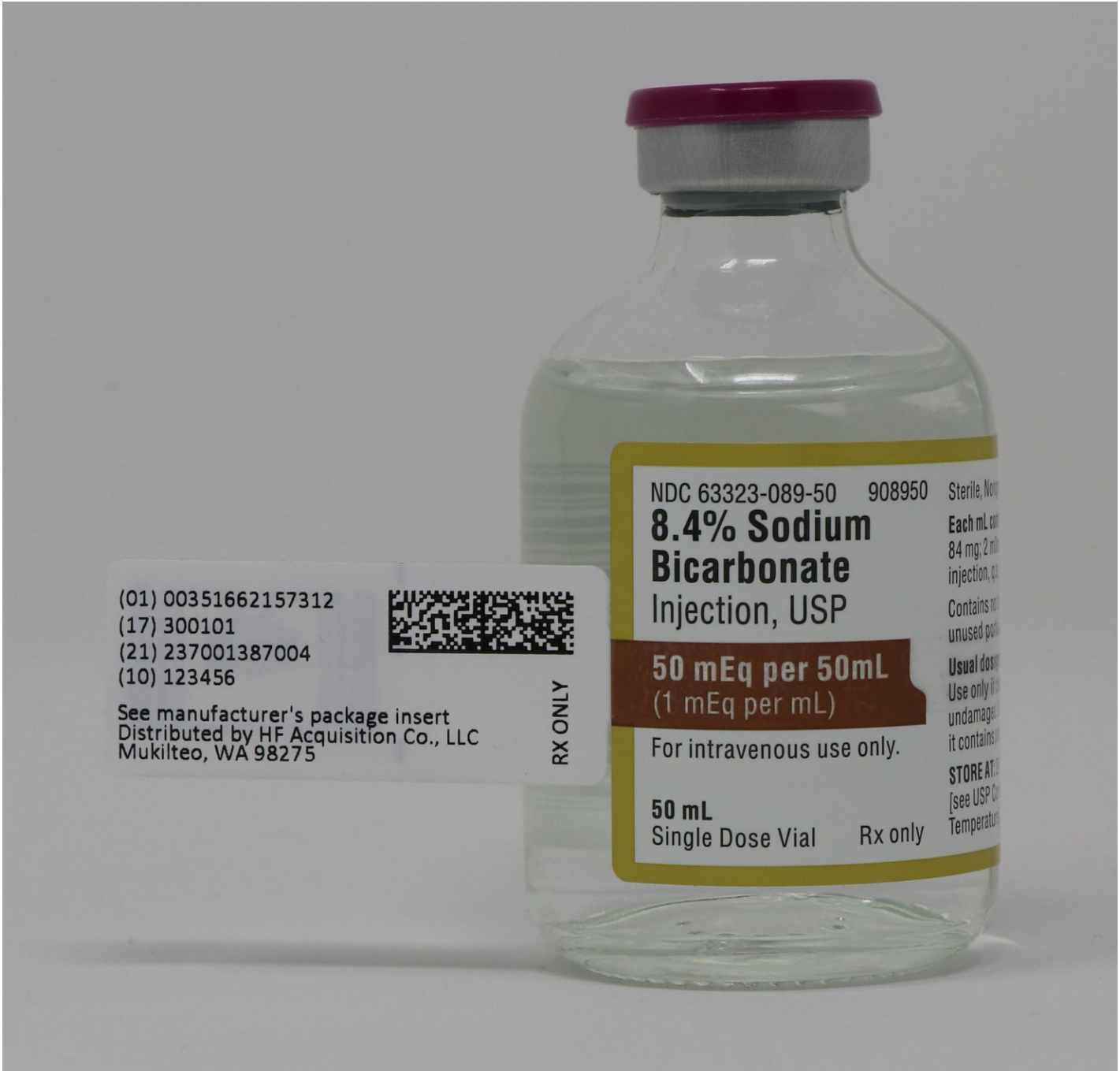
50 mL

Single Dose Vial

Rx only

PRINCIPAL DISPLAY PANEL - 51662-1573-1 SERIALIZED LABELING

51662-1573-1 SERIALIZED LABELING



(01) 00351662157312
(17) 300101
(21) 237001387004
(10) 123456



RX ONLY

See manufacturer's package insert
Distributed by HF Acquisition Co., LLC
Mukilteo, WA 98275

NDC 63323-089-50 908950

8.4% Sodium Bicarbonate Injection, USP

50 mEq per 50mL (1 mEq per mL)

For intravenous use only.

50 mL
Single Dose Vial Rx only

Sterile, Non-pyrogenic
Each mL contains 84 mg (2 mEq) of sodium bicarbonate injection, USP
Contains no preservatives
Unused portions should be discarded
Usual dosage: 1 mEq/kg body weight
Use only if the container is undamaged and the solution is clear
it contains no preservatives
STORE AT 20° to 25° C (68° to 77° F)
[see USP Controlled Room Temperature]
Temperature

PRINCIPAL DISPLAY PANEL NDC 51662-1573-2 POUCH LABELING

NDC 51662-1573-2 POUCH LABELING

**SODIUMBICARBONATE INJECTION, USP, 8.4%
50 mEq (1 mEq PER mL) 50mL VIAL**

**NDC: 51662-1573-2
LOT: 123456
EXP: 2030-01-01**

(01) 00351662157329
(10) 123456
(17) 300101
(21) 54996119879

FOR INTRAVENOUS USE ONLY. STERILE, NONPYROGENIC. EACH mL CONTAINS: SODIUMBICARBONATE, 84 mg; 2 mEq/mL (CALC.); WATER FOR INJECTION, q.s. CARBONDIOXIDE ADDED FOR pH ADJUSTMENT AND AS A RESULT, PRESSURE MAY BE PRESENT, pH 7.0 TO 8.5. CONTAINS NO BACTEROSTATIC. DO NOT RESTERILIZE. USUAL DOSAGE: SEE PACKAGE INSERT. USE ONLY IF CLEAR AND SEAL IS INTACT AND UNDAMAGED. DO NOT USE THE INJECTION IF IT CONTAINS PRECIPITATE. STORE AT: 20° TO 25°C (68° TO 77°F) [SEE USP CONTROLLED ROOM TEMPERATURE].

See manufacturer's package insert
ORIGINAL MFG NDC: 63323-089-50

RX ONLY

Manufactured by HFAcquisition Co., LLC
Mukilteo, WA 98275



VIAL LABEL

NDC 63323-089-50

**Sodium
Bicarbonate**

Injection, USP, 8.4%

50 mEq
(1 mEq per mL)

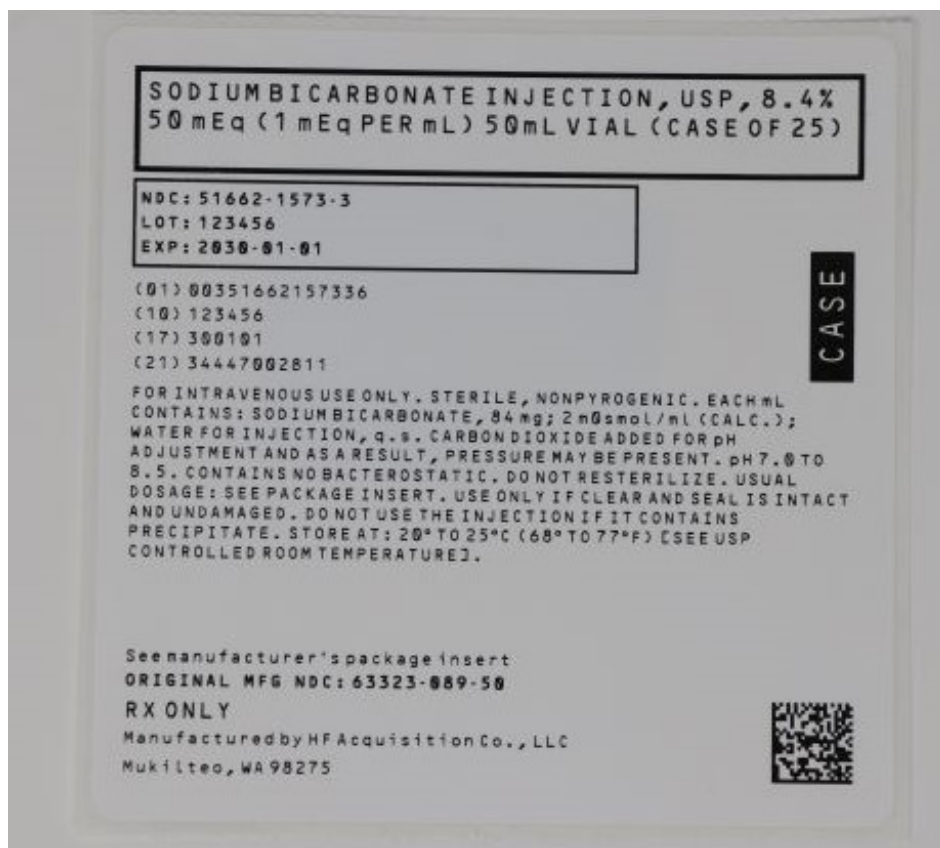
For intravenous use only.

50 mL

Single Dose Vial Rx only

PRINCIPAL DISPLAY PANEL NDC 51662-1573-3 CASE LABELING

NDC 51662-1573-3 CASE LABELING



SERIALIZED RFID LABELING



SODIUM BICARBONATE

sodium bicarbonate injection, solution

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:51662-1573(NDC:63323-089)
Route of Administration	INTRAVENOUS		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
SODIUM BICARBONATE (UNII: 8MDF5V39QO) (BICARBONATE ION - UNII:HN1ZRA3Q20)	SODIUM BICARBONATE	84 mg in 1 mL

Inactive Ingredients

Ingredient Name	Strength
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WATER (UNII: 059QF0KO0R)

CARBON DIOXIDE (UNII: 142M471B3J)

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:51662-1573-1	50 mL in 1 VIAL, SINGLE-DOSE; Type 0: Not a Combination Product	02/18/2022	
2	NDC:51662-1573-3	25 in 1 CASE	07/31/2022	
2	NDC:51662-1573-2	1 in 1 POUCH		
2		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
unapproved drug other		02/18/2022	

Labeler - HF Acquisition Co LLC, DBA HealthFirst (045657305)

Registrant - HF Acquisition Co LLC, DBA HealthFirst (045657305)

Establishment

Name	Address	ID/FEI	Business Operations
HF Acquisition Co LLC, DBA HealthFirst		045657305	relabel(51662-1573)

Revised: 7/2022

HF Acquisition Co LLC, DBA HealthFirst