

POTASSIUM CHLORIDE EXTENDED-RELEASE- potassium chloride extended-release tablet, extended release
NCS HealthCare of KY, LLC dba Vanguard Labs

Potassium Chloride Extended-Release Tablets, USP

Rx only

DESCRIPTION

Potassium chloride extended-release tablets, USP 10 mEq product is an immediately dispersing extended-release oral dosage form of potassium chloride containing 750 mg of microencapsulated potassium chloride, USP equivalent to 10 mEq of potassium in a tablet.

Potassium chloride extended-release tablets, USP 20 mEq product is an immediately dispersing extended-release oral dosage form of potassium chloride containing 1,500 mg of microencapsulated potassium chloride, USP equivalent to 20 mEq of potassium in a tablet.

These formulations are intended to slow the release of potassium so that the likelihood of a high localized concentration of potassium chloride within the gastrointestinal tract is reduced.

Potassium chloride extended release tablets, USP is an electrolyte replenisher. The chemical name of the active ingredient is potassium chloride, and the structural formula is KCl. Potassium chloride, USP occurs as a white, granular powder or as colorless crystals. It is odorless and has a saline taste. Its solutions are neutral to litmus. It is freely soluble in water and insoluble in alcohol.

Potassium chloride extended release tablets, USP is a tablet formulation (not enteric-coated or wax matrix) containing individually microencapsulated potassium chloride crystals which disperse upon tablet disintegration. In simulated gastric fluid at 37°C and in the absence of outside agitation, potassium chloride extended release tablets begins disintegrating into microencapsulated crystals within seconds and completely disintegrates within 1 minute. The microencapsulated crystals are formulated to provide an extended-release of potassium chloride, USP

Inactive Ingredients: croscarmellose sodium, ethyl cellulose, hydroxypropyl cellulose, microcrystalline cellulose and talc.

FDA approved sample preparation in the assay differs from USP test.

FDA approved dissolution test specifications differs from USP test.

CLINICAL PHARMACOLOGY

The potassium ion is the principal intracellular cation of most body tissues. Potassium ions participate in a number of essential physiological processes including the maintenance of intracellular tonicity; the transmission of nerve impulses; the contraction of cardiac, skeletal and smooth muscle; and the maintenance of normal renal function.

The intracellular concentration of potassium is approximately 150 to 160 mEq per liter. The normal adult plasma concentration is 3.5 to 5 mEq per liter. An active ion transport system maintains this gradient across the plasma membrane.

Potassium is a normal dietary constituent and under steady-state conditions the amount of potassium absorbed from the gastrointestinal tract is equal to the amount excreted in the urine. The usual dietary intake of potassium is 50 to 100 mEq per day.

Potassium depletion will occur whenever the rate of potassium loss through renal excretion and/or loss from the gastrointestinal tract exceeds the rate of potassium intake. Such depletion usually develops as a consequence of therapy with diuretics, primary or secondary hyperaldosteronism, diabetic ketoacidosis or inadequate replacement of potassium in patients on prolonged parenteral nutrition. Depletion can develop rapidly with severe diarrhea, especially if associated with vomiting. Potassium depletion due to these causes is usually accompanied by a concomitant loss of chloride and is manifested by hypokalemia and metabolic alkalosis. Potassium depletion may produce weakness, fatigue, disturbances or cardiac rhythm (primarily ectopic beats), prominent U-waves in the electrocardiogram, and in advanced cases, flaccid paralysis and/or impaired ability to concentrate urine.

If potassium depletion associated with metabolic alkalosis cannot be managed by correcting the fundamental cause of the deficiency, e.g., where the patient requires long-term diuretic therapy, supplemental potassium in the form of high-potassium food or potassium chloride may be able to restore normal potassium levels.

In rare circumstances (e.g., patients with renal tubular acidosis) potassium depletion may be associated with metabolic acidosis and hyperchloremia. In such patients potassium replacement should be accomplished with potassium salts other than the chloride, such as potassium bicarbonate, potassium citrate, potassium acetate, or potassium gluconate.

INDICATIONS AND USAGE

BECAUSE OF REPORTS OF INTESTINAL AND GASTRIC ULCERATION AND BLEEDING WITH CONTROLLED-RELEASE POTASSIUM CHLORIDE PREPARATIONS, THESE DRUGS SHOULD BE RESERVED FOR THOSE PATIENTS WHO CANNOT TOLERATE OR REFUSE TO TAKE LIQUID OR EFFERVESCENT POTASSIUM PREPARATIONS OR FOR PATIENTS IN WHOM THERE IS A PROBLEM OF COMPLIANCE WITH THESE PREPARATIONS.

1. For the treatment of patients with hypokalemia with or without metabolic alkalosis, in digitalis intoxication and in patients with hypokalemic familial periodic paralysis. If hypokalemia is the result of diuretic therapy, consideration should be given to the use of a lower dose of diuretic, which may be sufficient without leading to hypokalemia.

2. For the prevention of hypokalemia in patients who would be at particular risk if hypokalemia were to develop, e.g., digitalized patients or patients with significant cardiac arrhythmias.

The use of potassium salts in patients receiving diuretics for uncomplicated essential hypertension is often unnecessary when such patients have a normal dietary pattern and when low doses of the diuretic are used. Serum potassium should be checked periodically, however, and if hypokalemia occurs, dietary supplementation with potassium-containing foods may be adequate to control milder cases. In more severe cases, and if dose adjustment of the diuretic is ineffective or unwarranted, supplementation with potassium salts may be indicated.

CONTRAINDICATIONS

Potassium supplements are contraindicated in patients with hyperkalemia since a further increase in serum potassium concentration in such patients can produce cardiac arrest. Hyperkalemia may complicate any of the following conditions: chronic renal failure, systemic acidosis, such as diabetic acidosis, acute dehydration, extensive tissue breakdown as in severe burns, adrenal insufficiency, or the administration of a potassium-sparing diuretic (e.g., spironolactone, triamterene, or amiloride) [see **OVERDOSAGE**].

Controlled-release formulations of potassium chloride have produced esophageal ulceration in certain cardiac patients with esophageal compression due to enlarged left atrium. Potassium supplementation, when indicated in such patients, should be given as a liquid preparation or as an aqueous (water) suspension of potassium chloride [see **PRECAUTIONS: Information for Patients** and **DOSAGE AND ADMINISTRATION**].

All solid oral dosage forms of potassium chloride are contraindicated in any patient in whom there is structural, pathological (e.g., diabetic gastroparesis), or pharmacologic (use of anticholinergic agents or other agents with anticholinergic properties at sufficient doses to exert anticholinergic effects) cause for arrest or delay in tablet passage through the gastrointestinal tract.

WARNINGS

Hyperkalemia [see **OVERDOSAGE**]

In patients with impaired mechanisms for excreting potassium, the administration of potassium salts can produce hyperkalemia and cardiac arrest. This occurs most commonly in patients given potassium by the intravenous route but may also occur in patients given potassium orally. Potentially fatal hyperkalemia can develop rapidly and be asymptomatic. The use of potassium salts in patients with chronic renal disease, or any other condition which impairs potassium excretion, requires particularly careful monitoring of the serum potassium concentration and appropriate dosage adjustment.

Interaction with Potassium-Sparing Diuretics

Hypokalemia should not be treated by the concomitant administration of potassium salts and a potassium-sparing diuretic (e.g., spironolactone, triamterene, or amiloride) since the simultaneous administration of these agents can produce severe hyperkalemia.

Interaction with Renin Angiotensin-Aldosterone System Inhibitors

Drugs that inhibit the renin-angiotensin-aldosterone system (RAAS) including angiotensin converting enzyme (ACE) inhibitors, angiotensin receptor blockers (ARBs), spironolactone, eplerenone, or aliskiren produce potassium retention by inhibiting aldosterone production. Closely monitor potassium in patients receiving concomitant RAAS therapy.

Interaction with Nonsteroidal Anti-Inflammatory Drugs

Nonsteroidal anti-inflammatory drugs (NSAIDs) may produce potassium retention by reducing renal synthesis of prostaglandin E and impairing the renin-angiotensin system. Closely monitor potassium in patients receiving concomitant NSAID therapy.

Gastrointestinal Lesions

Solid oral dosage forms of potassium chloride can produce ulcerative and/or stenotic lesions of the gastrointestinal tract. Based on spontaneous adverse reaction reports, enteric-coated preparations of potassium chloride are associated with an increased frequency of small bowel lesions (40 to 50 per 100,000 patient years) compared to sustained-release wax matrix formulations (less than one per 100,000 patient years). Because of the lack of extensive marketing experience with microencapsulated products, a comparison between such products and wax matrix or enteric-coated products is not available. Potassium chloride extended release tablets is a tablet formulated to provide an controlled rate of release of microencapsulated potassium chloride and thus to minimize the possibility of a high local concentration of potassium near the gastrointestinal wall.

Prospective trials have been conducted in normal human volunteers in which the upper gastrointestinal tract was evaluated by endoscopic inspection before and after 1 week of solid oral potassium chloride therapy. The ability of this model to predict events occurring in usual clinical practice is unknown. Trials which approximated usual clinical practice did not reveal any clear differences between the wax matrix and microencapsulated dosage forms. In contrast, there was a higher incidence of gastric and duodenal lesions in subjects receiving a high dose of a wax matrix controlled-release formulation under conditions which did not resemble usual or recommended clinical practice (i.e., 96 mEq per day in divided doses of potassium chloride administered to fasted patients, in the presence of an anticholinergic drug to delay gastric emptying). The upper gastrointestinal lesions observed by endoscopy were asymptomatic and were not accompanied by evidence of bleeding (Hemoccult testing). The relevance of these findings to the usual conditions (i.e., non-fasting, no anticholinergic agent, smaller doses) under which extended-release potassium chloride products are used is uncertain; epidemiologic studies have not identified an elevated risk, compared to microencapsulated products, for upper gastrointestinal lesions in patients receiving wax matrix formulations. Potassium chloride extended release tablets should be discontinued immediately and the possibility of ulceration, obstruction, or perforation should be considered if severe vomiting, abdominal pain, distention, or gastrointestinal bleeding

OCCURS.

Metabolic Acidosis

Hypokalemia in patients with metabolic acidosis should be treated with an alkalinizing potassium salt such as potassium bicarbonate, potassium citrate, potassium acetate or potassium gluconate.

PRECAUTIONS

General

The diagnosis of potassium depletion is ordinarily made by demonstrating hypokalemia in a patient with a clinical history suggesting some cause for potassium depletion. In interpreting the serum potassium level, the physician should bear in mind that acute alkalosis per se can produce hypokalemia in the absence of a deficit in total body potassium while acute acidosis per se can increase the serum potassium concentration into the normal range even in the presence of a reduced total body potassium. The treatment of potassium depletion, particularly in the presence of cardiac disease, renal disease, or acidosis requires careful attention to acid-base balance and appropriate monitoring of serum electrolytes, the electrocardiogram, and the clinical status of the patient.

Information for Patients

Physicians should consider reminding the patient of the following:

To take each dose with meals and with a full glass of water or other liquid.

To take each dose without crushing, chewing or sucking the tablets. If those patients are having difficulty swallowing whole tablets, they may try one of the following alternate methods of administration:

- a. Break the tablet in half, and take each half separately with a glass of water.
- b. Prepare an aqueous (water) suspension as follows:
 1. Place the whole tablet(s) in approximately 1/2 glass of water (4 fluid ounces).
 2. Allow approximately 2 minutes for the tablet(s) to disintegrate.
 3. Stir for about half a minute after the tablet(s) has disintegrated.
 4. Swirl the suspension and consume the entire contents of the glass immediately by drinking or by the use of a straw.
 5. Add another one fluid ounce of water, swirl, and consume immediately.
 6. Then, add an additional one fluid ounce of water, swirl, and consume immediately.

Aqueous suspension of potassium chloride that is not taken immediately should be discarded. The use of other liquids for suspending potassium chloride tablets is not recommended.

To take this medicine following the frequency and amount prescribed by the physician. This is especially important if the patient is also taking diuretics and/or digitalis preparations.

To check with the physician at once if tarry stools or other evidence of gastrointestinal bleeding is noticed.

Laboratory Tests

When blood is drawn for analysis of plasma potassium it is important to recognize that artifactual elevations can occur after improper venipuncture technique or as a result of *in vitro* hemolysis of the sample.

Drug Interactions

Potassium-sparing diuretics, angiotensin-converting enzyme inhibitors [see **WARNINGS**].

Carcinogenesis, Mutagenesis, Impairment of Fertility

Carcinogenicity, mutagenicity, and fertility studies in animals have not been performed. Potassium is a normal dietary constituent.

Pregnancy

Animal reproduction studies have not been conducted with potassium chloride. It is unlikely that potassium supplementation that does not lead to hyperkalemia would have an adverse effect on the fetus or would affect reproductive capacity.

Nursing Mothers

The normal potassium ion content of human milk is about 13 mEq per litre. Since oral potassium becomes part of the body potassium pool, so long as body potassium is not excessive, the contribution of potassium chloride supplementation should have little or no effect on the level in human milk.

Pediatric Use

Safety and effectiveness in pediatric patients have not been established.

Geriatric Use

Clinical studies of potassium chloride did not include sufficient numbers of subjects aged 65 and over to determine whether they respond differently from younger subjects. Other reported clinical experience has not identified differences in responses between the 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.

This drug is 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

One of the most severe adverse effects is hyperkalemia [see **CONTRAINDICATIONS**, **WARNINGS** and **OVERDOSAGE**]. There have also been reports of upper and lower gastrointestinal conditions including obstruction, bleeding, ulceration, and perforation [see **CONTRAINDICATIONS** and **WARNINGS**]. The most common adverse reactions to oral potassium salts are nausea, vomiting, flatulence, abdominal pain/discomfort, and diarrhea. These symptoms are due to irritation of the gastrointestinal tract and are best managed by diluting the preparation further, taking the dose with meals or reducing the amount taken at one time.

OVERDOSAGE

The administration of oral potassium salts to persons with normal excretory mechanisms for potassium rarely causes serious hyperkalemia. However, if excretory mechanisms are impaired or if potassium is administered too rapidly intravenously, potentially fatal hyperkalemia can result [see **CONTRAINDICATIONS** and **WARNINGS**]. It is important to recognize that hyperkalemia is usually asymptomatic and may be manifested only by an increased serum potassium concentration (6.5 to 8 mEq/L) and characteristic electrocardiographic changes (peaking of T-waves, loss of P-waves, depression of S-T segment, and prolongation of the QT-interval). Late manifestations include muscle paralysis and cardiovascular collapse from cardiac arrest (9 to 12 mEq/L).

Treatment measures for hyperkalemia include the following:

1. Patients should be closely monitored for arrhythmias and electrolyte changes.
2. Elimination of foods and medications containing potassium and of any agents with potassium-sparing properties such as potassium-sparing diuretics, ARBS, ACE inhibitors, NSAIDs, certain nutritional supplements and many others.
3. Intravenous calcium gluconate if the patient is at not risk or low risk of developing digitalis toxicity.
4. Intravenous administration of 300 to 500 mL/hr of 10% dextrose solution containing 10 to 20 units of crystallin insulin per 1,000 mL.
5. Correction of acidosis, if present, with intravenous sodium bicarbonate.
6. Use of exchange resins, hemodialysis, or peritoneal dialysis.

In treating hyperkalemia, it should be recalled that in patients who have been stabilized on digitalis, too rapid a lowering of the serum potassium concentration can produce digitalis toxicity.

The extended-release feature means that absorption and toxic effects may be delayed for hours. Consider standard measures to remove any unabsorbed drug.

DOSAGE AND ADMINISTRATION

The usual dietary intake of potassium by the average adult is 50 to 100 mEq per day. Potassium depletion sufficient to cause hypokalemia usually requires the loss of 200 or more mEq of potassium from the total body store.

Dosage must be adjusted to the individual needs of each patient. The dose for the prevention of hypokalemia is typically in the range of 20 mEq per day. Doses of 40 to 100 mEq per day or more are used for the treatment of potassium depletion. Dosage should be divided if more than 20 mEq per day is given such that no more than 20 mEq is given in a single dose.

Each potassium chloride extended release tablets 10 mEq provides 750 mg of potassium chloride equivalent to 10 mEq of potassium chloride.

Each potassium chloride extended release tablets 20 mEq provides 1500 mg of potassium chloride equivalent to 20 mEq of potassium chloride.

Potassium chloride extended release tablets should be taken with meals and with a glass of water or other liquid. This product should not be taken on an empty stomach because of its potential for gastric irritation [see **WARNINGS**].

Patients having difficulty swallowing whole tablets may try one of the following alternate methods of administration:

- a. Break the tablet in half and take each half separately with a glass of water.
- b. Prepare an aqueous (water) suspension as follows:
 1. Place the whole tablet(s) in approximately 1/2 glass of water (4 fluid ounces).
 2. Allow approximately 2 minutes for the tablet(s) to disintegrate.
 3. Stir for about half a minute after the tablet(s) has disintegrated.
 4. Swirl the suspension and consume the entire contents of the glass immediately by drinking or by the use of a straw.
 5. Add another one fluid ounce of water, swirl, and consume immediately.
 6. Then, add an additional one fluid ounce of water, swirl, and consume immediately.

Aqueous suspension of potassium chloride that is not taken immediately should be discarded. The use of other liquids for suspending Potassium chloride extended release tablets is not recommended.

HOW SUPPLIED

Potassium Chloride Extended-release Tablets USP, 10 mEq

Potassium chloride extended-release tablets, USP 10 mEq (equivalent to 750 mg) of potassium chloride are white to off-white, oblong shaped tablets, debossed with G10M on one side and plain on other side.

Blistercards of 15 NDC 0615-8399-05

Blistercards of 28 NDC 0615-8399-28

Blistercards of 30 NDC 0615-8399-39

Potassium Chloride Extended-release Tablets USP, 20 mEq

Potassium chloride extended-release Tablets, USP 20 mEq (equivalent to 1500 mg) of potassium chloride are white to off-white, oblong shaped tablets, debossed with G20M on one side and scored on other side.

PRINCIPAL DISPLAY PANEL - 20 mEq BINGO



VG NDC 0615-8400-39
Potassium Chloride
Extended-Release
Tablets, USP 20 mEq K
 LOT 8400-
 EXP
QTY 30

Rx only

(Granules NDC 70010-135-01)
Potassium Chloride
Extended-Release
Tablets, USP 20 mEq K

8400-AA-39 v01

Mfg by Granules
 (NDC 70010-135-01)
 PKG BY VANGARD
 GLASGOW, KY 42141

16	8
30	23
29	22
28	21
27	20
26	19
25	18
24	17
9	1



The overall configuration of this package is a trademark of Omnicare, Inc.

Received:

24	16	8
31	23	7
30	22	6
29	21	5
28	20	4
27	19	3
26	18	2
25	17	1
Start Date	Start Time	

Each extended-release tablet contains:
 Potassium chloride, USP 1500 mg
 (equivalent to potassium 20 mEq).

Store at 20° to 25°C (68° to 77°F), excursions
 permitted to 15° to 30°C (59° to 86°F) (See
 USP Controlled Room Temperature).

Usual Dosage: See package insert for full
 prescribing information.

FOR INSTITUTIONAL USE ONLY

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PRINCIPAL DISPLAY PANEL - 20 mEq UNIT DOSE

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Potassium Chloride
Extended-Release Tablet,
USP 20 mEq K
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USP 20 mEq K
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<p>VG NDC 0615-8400-30 Potassium Chloride Extended-Release Tablets, USP 20 mEq K</p> <p>Rx only QTY 30 Each extended-release tablet contains: Potassium chloride, USP 1500 mg (equivalent to potassium 20 mEq)</p> <p>Store at 20° to 25°C (68° to 77°F), excursions permitted to 15° to 30°C (59° to 86°F) [See USP Controlled Room Temperature].</p> <p>LOT: EXP:</p> 	<p>VG NDC 0615-8400-30 Potassium Chloride Extended-Release Tablets, USP 20 mEq K</p> <p>Rx only FOR INSTITUTIONAL USE ONLY QTY 30 LOT: EXP: Manufactured By Granules or Granules NDC 70010-135-01</p> <p>Repackaged by Vanguard Labs Glasgow, KY 42141</p> <p>Usual Dosage: See package insert for full prescribing information.</p> 
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POTASSIUM CHLORIDE EXTENDED-RELEASE

potassium chloride extended-release tablet, extended release

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:0615-8399(NDC:70010-136)
Route of Administration	ORAL		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
POTASSIUM CHLORIDE (UNII: 660YQ98110) (POTASSIUM CATION - UNII:295O53K152)	POTASSIUM CHLORIDE	750 mg

Inactive Ingredients

Ingredient Name	Strength
CELLULOSE, MICROCRYSTALLINE (UNII: OP1R32D61U)	

CROSCARMELLOSE SODIUM (UNII: M28OL1HH48)	
ETHYLCELLULOSES (UNII: 7Z8S9VYZ4B)	
HYDROXYPROPYL CELLULOSE (160000 WAMW) (UNII: RFW2ET671P)	
TALC (UNII: 7SEV7J4R1U)	

Product Characteristics

Color	white (Off-White)	Score	no score
Shape	OVAL (Oblong shaped tablet)	Size	17mm
Flavor		Imprint Code	G10M
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:0615-8399-05	15 in 1 BLISTER PACK; Type 0: Not a Combination Product	05/05/2021	
2	NDC:0615-8399-39	30 in 1 BLISTER PACK; Type 0: Not a Combination Product	05/05/2021	
3	NDC:0615-8399-28	28 in 1 BLISTER PACK; Type 0: Not a Combination Product	01/10/2025	

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA214452	01/30/2021	

POTASSIUM CHLORIDE EXTENDED-RELEASE

potassium chloride extended-release tablet, extended release

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:0615-8400(NDC:70010-135)
Route of Administration	ORAL		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
POTASSIUM CHLORIDE (UNII: 660YQ98I10) (POTASSIUM CATION - UNII:295O53K152)	POTASSIUM CHLORIDE	1500 mg

Inactive Ingredients

Ingredient Name	Strength
CELLULOSE, MICROCRYSTALLINE (UNII: OP1R32D61U)	

CROSCARMELLOSE SODIUM (UNII: M28OL1HH48)	
ETHYLCELLULOSES (UNII: 7Z8S9VYZ4B)	
HYDROXYPROPYL CELLULOSE (1600000 WAMW) (UNII: RFW2ET671P)	
TALC (UNII: 7SEV7J4R1U)	

Product Characteristics

Color	white (Off-White)	Score	2 pieces
Shape	OVAL (Oblong shaped tablet)	Size	21mm
Flavor		Imprint Code	G20M
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:0615-8400-05	15 in 1 BLISTER PACK; Type 0: Not a Combination Product	05/06/2021	
2	NDC:0615-8400-39	30 in 1 BLISTER PACK; Type 0: Not a Combination Product	05/06/2021	
3	NDC:0615-8400-30	6 in 1 BOX, UNIT-DOSE	05/05/2021	
3		5 in 1 BLISTER PACK; Type 0: Not a Combination Product		
4	NDC:0615-8400-28	28 in 1 BLISTER PACK; Type 0: Not a Combination Product	05/02/2024	

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA214452	01/30/2021	

Labeler - NCS HealthCare of KY, LLC dba Vanguard Labs (050052943)

Establishment

Name	Address	ID/FEI	Business Operations
NCS HealthCare of KY, LLC dba Vanguard Labs		050052943	repack(0615-8399, 0615-8400)

Revised: 1/2025

NCS HealthCare of KY, LLC dba Vanguard Labs