

# SINCALIDE - sincalide injection, powder, lyophilized, for solution

## Fresenius Kabi USA, LLC

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### HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use SINCALIDE FOR INJECTION safely and effectively. See full prescribing information for SINCALIDE FOR INJECTION SINCALIDE for injection, for intravenous use Initial U.S. Approval: 1976

### -----RECENT MAJOR CHANGES-----

Contraindications (4)	10/2023
Warnings and Precautions (5.1)	10/2023
Anaphylaxis, Anaphylactic Shock and Other Serious Hypersensitivity Reactions (5.1)	

### -----INDICATIONS AND USAGE-----

Sincalide for Injection is a cholecystikinin (CCK) analog indicated in adults to:

- stimulate gallbladder contraction, as may be assessed by various methods of diagnostic imaging, or to obtain by duodenal aspiration a sample of concentrated bile for analysis of cholesterol, bile salts, phospholipids, and crystals. (1)
- stimulate pancreatic secretion in combination with secretin prior to obtaining a duodenal aspirate for analysis of enzyme activity, composition, and cytology. (1)
- accelerate the transit of a barium meal through the small bowel, thereby decreasing the time and extent of radiation associated with fluoroscopy and x-ray examination of the intestinal tract. (1)

### -----DOSAGE AND ADMINISTRATION-----

Recommended Adult Dosage and Administration by Indication:

#### To Stimulate Contraction of the Gallbladder

- 0.02 mcg/kg as a single dose over 30 to 60 seconds via intravenous injection. If satisfactory contraction does not occur in 15 minutes, administer a dose of 0.04 mcg/kg over 30 to 60 seconds. (2.1)
- *Alternatively consider an intravenous infusion to reduce gastrointestinal adverse reactions:* 0.12 mcg/kg diluted in 100 mL of 0.9% Sodium Chloride Injection USP and infused over 50 minutes at a rate of 2 mL per minute. (2.1, 2.2, 5.3)

#### To Stimulate Pancreatic Secretion in Combination with Secretin

- 30 minutes after initiation of secretin for injection, administer 0.02 mcg/kg diluted in 30 mL of 0.9% Sodium Chloride Injection USP and infused over 30 minutes at a rate of 1 mL per minute. (2.1, 2.2)

#### To Accelerate Transit of a Barium Meal Through the Small Intestine

- After the barium meal is beyond the proximal jejunum, administer 0.04 mcg/kg over 30 to 60 seconds via intravenous injection. (2.1)
- If satisfactory transit of the barium meal has not occurred in 30 minutes, administer a second dose of 0.04 mcg/kg over 30 to 60 seconds. (2.1)
- *Alternatively consider an intravenous infusion to reduce gastrointestinal adverse reactions:* 0.12 mcg/kg diluted in 100 mL 0.9% Sodium Chloride Injection USP and infused over 30 minutes. (2.1, 2.2, 5.3)

### -----DOSAGE FORMS AND STRENGTHS-----

For injection: 5 mcg of sincalide as a lyophilized powder in a single-dose vial for reconstitution (3)

### -----CONTRAINDICATIONS-----

- History of hypersensitivity to sulfites or sincalide. (4, 5.1)
- Intestinal obstruction. (4)

### -----WARNINGS AND PRECAUTIONS-----

- Anaphylaxis, Anaphylactic Shock and Other Serious Hypersensitivity Reactions: Contains sodium metabisulfite. Serious reactions may occur during or soon after administration. If symptoms occur, discontinue the drug. (4, 5.1)

- Evacuation of Gallstones: Stimulation of gallbladder contraction in patients with small gallbladder stones could lead to the evacuation of the stones from the gallbladder, resulting in their lodging in the cystic duct or in the common bile duct. (5.2)
- Gastrointestinal Adverse Reactions with Intravenous Injection: Administration as an intravenous injection may cause transient nausea, vomiting, abdominal pain or cramping, dizziness or flushing. To reduce the risk of adverse reactions when used to stimulate contraction of the gallbladder or accelerate transit of a barium meal through the small intestine, administer as an intravenous infusion over 50 or 30 minutes, respectively. (2.1, 5.3)
- Preterm Labor or Spontaneous Abortion: Advise pregnant women of the potential risk for preterm labor and spontaneous abortion. (5.4, 8.1)

#### -----ADVERSE REACTIONS-----

Most common adverse reactions ( $\geq 20\%$ ) are: abdominal discomfort or pain, and nausea. (6)

**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](http://www.fda.gov/medwatch).**

#### -----DRUG INTERACTIONS-----

Drugs that Affect Gallbladder Motility or Contractile Response: May interfere with response to sincalide. Consider discontinuing these drugs prior to administration of Sincalide for Injection, when used to stimulate contraction of the gallbladder. (7.1)

**See 17 for PATIENT COUNSELING INFORMATION.**

**Revised: 10/2023**

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\* Sections or subsections omitted from the full prescribing information are not listed.

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## FULL PRESCRIBING INFORMATION

### 1 INDICATIONS AND USAGE

Sincalide for Injection is indicated in adults to:

- to stimulate gallbladder contraction, as may be assessed by various methods of diagnostic imaging, or to obtain by duodenal aspiration a sample of concentrated bile for analysis of cholesterol, bile salts, phospholipids, and crystals;
- to stimulate pancreatic secretion in combination with secretin prior to obtaining a duodenal aspirate for analysis of enzyme activity, composition, and cytology;
- to accelerate the transit of a barium meal through the small bowel, thereby decreasing the time and extent of radiation associated with fluoroscopy and x-ray examination of the intestinal tract.

### 2 DOSAGE AND ADMINISTRATION

#### 2.1 Recommended Dosage and Administration Instructions

The recommended dosage and administration of Sincalide for Injection by indication is shown in Table 1. For preparation instructions see *Dosage and Administration (2.2)*.

**Table 1: Recommended Adult Dosage and Administration of Sincalide for Injection by Treatment Indication**

<b>Indication</b>	<b>Recommended Adult Dosage and Administration of Sincalide for Injection</b>
To stimulate contraction of the gallbladder	Sincalide for Injection 0.02 mcg/kg as a single dose over 30 to 60 seconds via intravenous injection. If satisfactory contraction does not occur in 15 minutes, administer a dose of 0.04 mcg/kg over 30 to 60 seconds. <u>Alternatively, Consider an Intravenous Infusion to Reduce Gastrointestinal Adverse Reactions [see Warnings and Precautions (5.3)]:</u> 0.12 mcg/kg diluted in 100 mL of 0.9% Sodium Chloride Injection USP and infused over 50 minutes at a rate of 2 mL per minute.
To stimulate pancreatic secretion in combination with secretin for injection	Secretin for Injection: 0.25 units/kg as intravenous infusion over 60 minutes Sincalide for Injection: 30 minutes after initiation of secretin infusion, administer Sincalide for Injection 0.02 mcg/kg diluted in 30 mL of 0.9% Sodium Chloride Injection USP and infused over 30 minutes at a rate of 1 mL per minute.
To accelerate the transit	After the barium meal is beyond the proximal jejunum,

of a barium meal through the small intestine	<p>administer Sincalide for Injection 0.04 mcg/kg over 30 to 60 seconds via intravenous injection.</p> <p>If satisfactory transit of the barium meal has not occurred in 30 minutes, administer a second dose of 0.04 mcg/kg over 30 to 60 seconds.</p> <p><u>Alternatively, Consider an Intravenous Infusion to Reduce Gastrointestinal Adverse Reactions [see Warnings and Precautions (5.3)]:</u> 0.12 mcg/kg diluted in 100 mL 0.9% Sodium Chloride Injection USP and infused over 30 minutes.</p>
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## 2.2 Preparation Instructions

### For Intravenous Injection

- Reconstitute Sincalide for Injection aseptically by adding 5 mL of Sterile Water for Injection USP to the vial.
- Inspect the reconstituted solution visually for particulate matter and discoloration after reconstitution and prior to administration.
- Withdraw the prescribed dose of the reconstituted solution from the vial and administer as an intravenous injection over 30 to 60 seconds, as shown in Table 1. Discard the unused portion.
- Store the reconstituted solution at room temperature. *Discard after 8 hours.*
- For single use only; discard unused portion.

### For Intravenous Infusion

- Reconstitute Sincalide for Injection aseptically by adding 5 mL of Sterile Water for Injection USP to the vial.
- After reconstitution, withdraw the prescribed dose of the solution from the vial. Discard unused portion.
- Dilute the reconstituted solution in 30 mL or 100 mL of 0.9% Sodium Chloride Injection USP, depending on the indication, as described in Table 1.
- Inspect the Sincalide for Injection solutions visually for particulate matter and discoloration after reconstitution, dilution and prior to administration.
- Store the diluted solution at room temperature. *Discard after 1 hour.*

## 3 DOSAGE FORMS AND STRENGTHS

For injection: 5 mcg of sincalide as a lyophilized white powder for reconstitution in a single-dose vial.

## 4 CONTRAINDICATIONS

Sincalide for Injection is contraindicated in patients with:

- a history of hypersensitivity to sulfites or sincalide. Serious hypersensitivity reactions have included anaphylaxis and anaphylactic shock [see Warnings and Precautions (5.1), Adverse Reactions (6)].
- intestinal obstruction.

## 5 WARNINGS AND PRECAUTIONS

## **5.1 Anaphylaxis, Anaphylactic Shock and Other Serious Hypersensitivity Reactions**

Contains sodium metabisulfite [see *Description (11)*], a sulfite that may cause allergic-type reactions including anaphylactic symptoms and life-threatening or less severe asthmatic episodes in certain susceptible people. The overall prevalence of sulfite sensitivity in the general population is unknown and probably low. Sulfite sensitivity is seen more frequently in asthmatic than in non-asthmatic people.

In postmarketing experience, anaphylaxis, anaphylactic shock and other serious hypersensitivity reactions have been reported during and within one hour following administration of Sincalide for Injection [see *Adverse Reactions (6)*].

Sincalide for Injection is contraindicated in patients with a history of hypersensitivity to sulfites. Due to the potential for anaphylaxis, appropriate medical support should be readily available when Sincalide for Injection is administered. If anaphylaxis or other hypersensitivity reactions occur, immediately discontinue the infusion and initiate appropriate medical treatment. Observe patients closely during and after the infusion. Do not reinitiate Sincalide for Injection in patients who have experienced symptoms of hypersensitivity [see *Contraindications (4)*].

## **5.2 Evacuation of Gallstones**

Stimulation of gallbladder contraction in patients with small gallbladder stones could lead to the evacuation of the stones from the gallbladder, resulting in their lodging in the cystic duct or in the common bile duct.

## **5.3 Gastrointestinal Adverse Reactions with Intravenous Injection**

Administration of Sincalide for Injection as an intravenous injection may cause adverse reactions such as nausea, vomiting, abdominal pain or cramping, dizziness, and flushing [see *Adverse Reactions (6)*]. These reactions are generally transient. To reduce the risk of adverse reactions with intravenous injection when used to stimulate contraction of the gallbladder or accelerate transit of a barium meal through the small intestine, administer Sincalide for Injection as an intravenous infusion over 50 or 30 minutes, respectively [see *Dosage and Administration (2.1)*].

## **5.4 Preterm Labor or Spontaneous Abortion**

Because of Sincalide for Injection's effect on smooth muscle, pregnant patients should be advised that spontaneous abortion or premature induction of labor may occur [see *Use in Specific Populations (8.1)*].

## **6 ADVERSE REACTIONS**

The following clinically significant adverse reactions are described elsewhere in labeling:

- Anaphylaxis, anaphylactic shock, and other serious hypersensitivity reactions [see *Warnings and Precautions (5.1)*]
- Evacuation of gallstones [see *Warnings and Precautions (5.2)*]
- Adverse reactions with intravenous injection [see *Warnings and Precautions (5.3)*]
- Preterm labor or spontaneous abortion [see *Warnings and Precautions (5.4)*]

The following adverse reactions associated with the use of Sincalide for Injection were identified in clinical trials or postmarketing reports. Because these reactions were reported voluntarily from a population of uncertain size, it is not always possible to estimate their frequency, reliably, or to establish a causal relationship to drug exposure.

The most frequent adverse reactions (20% or greater) are gastrointestinal: abdominal discomfort or pain, and nausea; these may not necessarily indicate an abnormality of the biliary tract unless there is other clinical or radiologic evidence of disease.

Less common adverse reactions include:

*Hypersensitivity reactions:* anaphylaxis and anaphylactic shock, hypotension, throat tightness, bradycardia, shortness of breath, nausea, abdominal cramping, diaphoresis, hives, rash, itching; and numbness of face, lips and eyes [see *Contraindications (4), (5.1)*].

*Neurological reactions:* seizures, headache.

*Vasovagal reactions:* dizziness, loss of consciousness, nausea, diaphoresis, syncope and hypotension (generally self-limiting).

*Other:* nausea, vomiting, flushing, hypertension, urge to defecate, diarrhea, sneezing.

## **7 DRUG INTERACTIONS**

### **7.1 Drugs that Affect Gallbladder Motility or Contractile Response**

Drugs that may stimulate or inhibit gallbladder motility or contractile response may interfere with the response to sincalide. Consider discontinuing these drugs prior to administration of Sincalide for Injection, when used to stimulate contraction of the gallbladder.

## **8 USE IN SPECIFIC POPULATIONS**

### **8.1 Pregnancy**

#### Risk Summary

Based on limited human data and mechanism of action, sincalide may cause preterm labor or spontaneous abortion [see *Warnings and Precautions (5.4)*]. Available data with Sincalide for Injection are insufficient to establish a drug-associated risk of major birth defects, miscarriage or adverse maternal or fetal outcomes. In animal embryo-fetal development studies in which sincalide was administered to hamsters and rats during the period of organogenesis, no effects were seen at doses comparable to the maximum recommended clinical dose on a mg/kg basis. However, in a prenatal development study in which rats were administered sincalide during organogenesis through parturition, decreased weight gain and developmental delays were observed at a dose 122 times higher than the maximum recommended human dose based on body surface area.

The estimated background risk of major birth defects and miscarriage for the indicated population is unknown. All pregnancies have a background risk of birth defect, loss, or other adverse outcomes. In the U.S. general population, the estimated background risk

of major birth defects and miscarriage in clinically recognized pregnancies is 2 to 4% and 15 to 20%, respectively.

## Data

### *Animal Data*

There were no effects on embryo-fetal development in hamsters when sincalide was administered subcutaneously at 250 or 750 ng/kg during organogenesis (Gestation Days 7 to 13) at doses up to 0.8 times the maximum recommended dose of 120 ng/kg on a body surface area basis. No effects on embryo-fetal development were observed in Sprague-Dawley rats at subcutaneous doses of 250, 450, or 750 ng/kg from Gestation Days 6 to 16, representing 1.0 time the maximum recommended human dose on a body surface area basis. In a separate study at a higher dose of 90 mcg/kg administered subcutaneously to CFY rats from Gestation Day 10 through parturition (representing 122 times the maximum recommended human dose on a body surface area basis), offspring showed decreased growth, behavioral changes, and developmental delays.

## **8.2 Lactation**

### Risk Summary

There are no data regarding the presence of sincalide in human or animal milk, the effects on the breastfed infant, or the effects on milk production. The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for Sincalide for Injection and any potential adverse effect on the breastfed infant from Sincalide for Injection or from the underlying condition.

## **8.4 Pediatric Use**

The safety and effectiveness in pediatric patients have not been established.

## **8.5 Geriatric Use**

Clinical studies of Sincalide for Injection did not include sufficient numbers of subjects aged 65 and over to determine whether they respond differently from younger subjects.

## **10 OVERDOSAGE**

In the event of an overdose, symptoms related to vagal stimulation, such as gastrointestinal symptoms (abdominal cramps, nausea, vomiting and diarrhea), hypotension with dizziness or fainting may occur. Overdosage symptoms should be treated symptomatically and should be of short duration.

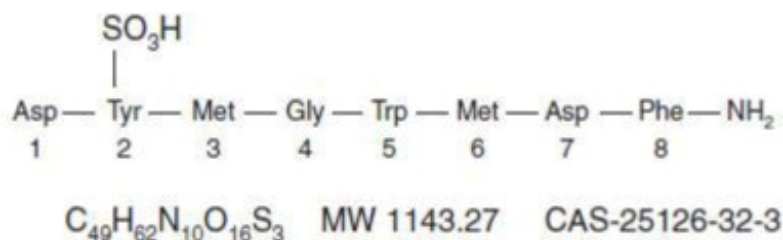
A single bolus intravenous injection of 0.05 mcg/kg (approximately 2 to 3 times the human dose of 0.02 mcg/kg), sincalide caused hypotension and bradycardia in dogs. In addition, higher doses injected intravenously once or repeatedly in dogs caused syncope and ECG changes (approximately 5 times the human dose of 0.02 mcg/kg). These effects were attributed to sincalide-induced vagal stimulation in that all were prevented by pretreatment with atropine or bilateral vagotomy.

## **11 DESCRIPTION**

Sincalide for Injection is a cholecystopancreatic-gastrointestinal hormone for parenteral administration. The agent is a synthetically-prepared C-terminal octapeptide of cholecystokinin.

Each single-dose vial of sincalide provides a sterile nonpyrogenic lyophilized white powder consisting of 5 mcg sincalide with 30 mg arginine hydrochloride, 15 mg lysine hydrochloride, 170 mg mannitol, 4 mg methionine, 2 mg pentetic acid, 0.005 mcg polysorbate 20, 9 mg potassium phosphate dibasic, and 0.04 mg sodium metabisulfite.

The pH is adjusted to 6.0 to 8.0 with hydrochloric acid and/or sodium hydroxide prior to lyophilization. Sincalide is designated chemically as L- $\alpha$ -aspartyl-O-sulfo-L-tyrosyl-L-methionylglycyl-L-tryptophyl-L-methionyl-L- $\alpha$ -aspartyl-L-phenylalaninamide. Graphic formula:



## 12 CLINICAL PHARMACOLOGY

### 12.1 Mechanism of Action

When injected intravenously, sincalide stimulates gallbladder contraction and reduction in size. The evacuation of bile that results is similar to that which occurs physiologically in response to endogenous cholecystokinin. Sincalide also stimulates pancreatic secretion and intestinal motility causing pyloric contraction and slows gastric emptying.

Concurrent administration of sincalide with secretin increases both the volume of pancreatic secretion and the out-put of bicarbonate and enzymes. This combined effect of secretin and sincalide permits the assessment of specific pancreatic function through measurement and analysis of the duodenal aspirate.

### 12.2 Pharmacodynamics

Following an intravenous (bolus) injection of 0.02 mcg/kg of sincalide, maximal contraction of the gallbladder occurred in 5 to 15 minutes. Sincalide reduced gallbladder radiographic size by at least 40%, which is generally considered satisfactory contraction.

## 13 NONCLINICAL TOXICOLOGY

### 13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Long-term studies in animals have not been performed to evaluate carcinogenic or mutagenic potential, or possible impairment of fertility in males or females.

## 16 HOW SUPPLIED/STORAGE AND HANDLING



Sincalide for Injection is supplied as 5 mcg of sincalide as a lyophilized white powder for reconstitution in a single-dose vial; in packages of 10 vials as follows:

<b>Product Code</b>	<b>Unit of Sale</b>	<b>Strength</b>	<b>Each</b>
579105	NDC 63323-579-05 Unit of 10	5 mcg per vial	NDC 63323-579-01 Single-Dose Vial

Store at 25° C (77° F); excursions permitted to 15-30° C (59-86° F) [See USP Controlled Room Temperature].

## **17 PATIENT COUNSELING INFORMATION**

### Anaphylaxis, Anaphylactic Shock and Other Serious Hypersensitivity Reactions

Inform patients that serious hypersensitivity reactions, including anaphylaxis and anaphylactic shock have been reported during or following administration of Sincalide for Injection. Advise patients to report immediately to a healthcare provider if they experience symptoms of a hypersensitivity reaction [see *Warnings and Precautions (5.1)*].

### Gastrointestinal Adverse Reactions

Advise patients that Sincalide for Injection may cause transient gastrointestinal symptoms [see *Warnings and Precautions (5.3)*].

### Pregnancy

Advise pregnant women of the potential risk for preterm labor and spontaneous abortion [see *Warnings and Precautions (5.4)*, *Use in Specific Populations (8.1)*].

## **Rx only**

Manufactured by:



Lake Zurich, IL 60047  
[www.fresenius-kabi.com/us](http://www.fresenius-kabi.com/us)

451763A /Revised: October 2023

## **Principal Display Panel - Sincalide for Injection 5 mcg per vial - Tray Label**

NDC 63323-**579**-05 **Rx only**

**Sincalide**  
for Injection

**5 mcg per vial**

**For Intravenous use**

**10 Single-Dose Vials  
Discard Unused Portion**

NDC 63323-579-05 **Rx only**

# Sincalide for Injection


**5 mcg per vial**

**For Intravenous use**

**10 Single-Dose Vials  
Discard Unused Portion**

Each vial contains a sterile, lyophilized powder providing 5 mcg sincalide with 170 mg mannitol, 30 mg arginine hydrochloride, 15 mg lysine hydrochloride, 9 mg potassium phosphate dibasic, 4 mg methionine, 2 mg pentetic acid, 0.04 mg sodium metabisulfite, and 0.005 mcg polysorbate 20. pH adjusted to 6.0 - 8.0 with hydrochloric acid and/or sodium hydroxide. When reconstituted with 5 mL of Sterile Water for Injection USP, each mL contains 1 mcg sincalide.


Usual dose: See insert  
**Store at 25°C (77°F) See insert**  
After reconstitution the solution may be stored at room temperature for up to 8 hours.  
Manufactured by:



**FRESENIUS  
KABI**  
Lake Zurich, IL 60047

[www.fresenius-kabi.com/us](http://www.fresenius-kabi.com/us)

421048



(01)20363323579054

**Principal Display Panel - Sincalide for Injection 5 mcg per vial - Vial Label**

NDC 63323-579-01 **Rx only**

**Sincalide**  
for Injection

**5 mcg per vial**

**For Intravenous use**  
**Single-Dose Vial**  
**Discard Unused Portion**

NDC 63323-579-01 **Rx only**

# Sincalide for Injection

**5 mcg per vial**

**For Intravenous use**  
**Single-Dose Vial**  
**Discard Unused Portion**


Vial contains a sterile, lyophilized powder providing 5 mcg sincalide (see insert for inactive ingredients); pH adjusted to 6.0 - 8.0 with hydrochloric acid and/or sodium hydroxide.

Usual dose: See insert  
**Store at 25°C (77°F) See insert**

**Fresenius Kabi Lake Zurich, IL 60047**

**403904**

LOT/EXP



3 63323-579-01 2

**SINCALIDE**

sincalide injection, powder, lyophilized, for solution

## Product Information

<b>Product Type</b>	HUMAN PRESCRIPTION DRUG	<b>Item Code (Source)</b>	NDC:63323-579
<b>Route of Administration</b>	INTRAVENOUS		

## Active Ingredient/Active Moiety

<b>Ingredient Name</b>	<b>Basis of Strength</b>	<b>Strength</b>
<b>Sincalide</b> (UNII: M03GIQ7Z6P) (Sincalide - UNII:M03GIQ7Z6P)	Sincalide	5 ug in 5 mL

## Inactive Ingredients

<b>Ingredient Name</b>	<b>Strength</b>
<b>mannitol</b> (UNII: 3OWL53L36A)	170 mg in 5 mL
<b>arginine hydrochloride</b> (UNII: F7LTH1E20Y)	30 mg in 5 mL
<b>lysine hydrochloride</b> (UNII: JNJ23Q2COM)	15 mg in 5 mL
<b>potassium phosphate, dibasic</b> (UNII: CI71S98N1Z)	9 mg in 5 mL
<b>methionine</b> (UNII: AE28F7PNPL)	4 mg in 5 mL
<b>sodium metabisulfite</b> (UNII: 4VON5FNS3C)	0.04 mg in 5 mL
<b>polysorbate 20</b> (UNII: 7T1F30V5YH)	0.005 ug in 5 mL

## Packaging

<b>#</b>	<b>Item Code</b>	<b>Package Description</b>	<b>Marketing Start Date</b>	<b>Marketing End Date</b>
1	NDC:63323-579-05	10 in 1 PACKAGE	04/01/2023	
1	NDC:63323-579-01	5 mL in 1 VIAL; Type 0: Not a Combination Product		

## Marketing Information

<b>Marketing Category</b>	<b>Application Number or Monograph Citation</b>	<b>Marketing Start Date</b>	<b>Marketing End Date</b>
NDA	NDA017697	04/01/2023	

**Labeler** - Fresenius Kabi USA, LLC (608775388)

**Registrant** - Bracco Diagnostics Inc. (849234661)

## Establishment

<b>Name</b>	<b>Address</b>	<b>ID/FEI</b>	<b>Business Operations</b>
Fresenius Kabi USA, LLC		840771732	ANALYSIS(63323-579) , MANUFACTURE(63323-579)