ENTERO VU 24%- barium sulfate suspension
E-Z-EM Canada Inc

HIGHLIGHTS OF PRESCRIBING INFORMATION
These highlights do not include all the information needed to use ENTERO VU 24% safely and effectively. See full prescribing information for ENTERO VU 24%.

ENTERO VU 24% (barium sulfate) oral suspension

Initial U.S. Approval: 2016

INDICATIONS AND USAGE

ENTERO VU 24% is a radiographic contrast agent indicated for use in small bowel radiographic examinations to visualize the gastrointestinal (GI) tract in adult patients (1)

DOSAGE AND ADMINISTRATION

- For oral use only:
  - Adults: Recommended dose is 600 mL (2.1)

DOSAGE FORMS AND STRENGTHS

- Oral Suspension: barium sulfate (24% w/v) supplied in single dose bottle (3)

CONTRAINDICATIONS

- Known or suspected perforation of the gastrointestinal (GI) tract (4)
- Known obstruction of the GI tract (4)
- Conditions associated with high risk of GI perforation or aspiration (4)
- Known hypersensitivity to barium sulfate or any of the excipients of ENTERO VU 24% (4)

WARNINGS AND PRECAUTIONS

- Hypersensitivity reactions: Emergency equipment and trained personnel should be immediately available (5.1)
- Intra-abdominal barium leakage: May occur in conditions such as GI fistula, ulcer, inflammatory bowel disease, appendicitis, diverticulitis, severe stenosis or obstructing lesions of the GI tract (5.2)
- Delayed GI transit and obstruction: Patients should maintain adequate hydration in days following barium sulfate procedure to avoid obstruction or impaction (5.3)
- Aspiration Pneumonitis: Patients with a history of food aspiration or with swallowing disorders are at increased risk. Monitor patients for aspiration (5.4)

ADVERSE REACTIONS

Common adverse reactions include nausea, vomiting, diarrhea and abdominal cramping (6)

To report SUSPECTED ADVERSE REACTIONS, contact Bracco Diagnostics Inc at 1-800-257-5181 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch

See 17 for PATIENT COUNSELING INFORMATION.

Revised: 5/2020

FULL PRESCRIBING INFORMATION: CONTENTS*

1 INDICATIONS AND USAGE
2 DOSAGE AND ADMINISTRATION
2.1 Recommended Dosing
2.2 Administration Instructions
3 DOSAGE FORMS AND STRENGTHS

4 CONTRAINDICATIONS
5 WARNINGS AND PRECAUTIONS
5.1 Hypersensitivity Reactions
5.2 Intra-abdominal Barium Leakage
5.3 Delayed Gastrointestinal Transit and Obstruction
5.4 Aspiration Pneumonitis
5.5 Systemic Embolization
5.6 Risk with Hereditary Fructose Intolerance
6 ADVERSE REACTIONS
8 USE IN SPECIFIC POPULATIONS
8.1 Pregnancy
8.2 Lactation
8.4 Pediatric Use
8.5 Geriatric Use
11 DESCRIPTION
12 CLINICAL PHARMACOLOGY
12.1 Mechanism of Action
12.2 Pharmacodynamics
12.3 Pharmacokinetics
13 NONCLINICAL TOXICOLOGY
13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility
16 HOW SUPPLIED/STORAGE AND HANDLING
17 PATIENT COUNSELING INFORMATION
* Sections or subsections omitted from the full prescribing information are not listed.

FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE

ENTERO VU 24% is indicated for use in small bowel radiographic examinations to visualize the gastrointestinal (GI) tract in adult patients.

2 DOSAGE AND ADMINISTRATION

2.1 Recommended Dosing

- The recommended oral dose of ENTERO VU 24% is:
  - Adults: 600 mL

2.2 Administration Instructions

- For oral use only
- Shake bottle vigorously prior to oral administration to fully suspend product
- Administer undiluted
- Discard any unused suspension
- Advise patients to hydrate following the barium sulfate procedure
- Advise patient at risk for constipation or delayed gastrointestinal transit to monitor

for worsening of their condition after administration of barium sulfate and seek medical attention if worsening and advise using laxatives to enhance gastrointestinal transit.

3 DOSAGE FORMS AND STRENGTHS

Oral suspension: barium sulfate (24% w/v) supplied in a single-dose white HDPE plastic bottle as a ready-to-use suspension for oral administration. Each bottle contains 600 mL of suspension.

4 CONTRAINDICATIONS

ENTERO VU 24% is contraindicated in patients with the following conditions:

- known or suspected perforation of the GI tract
- known obstruction of the GI tract
- high risk of GI perforation such as those with a recent GI perforation, acute GI hemorrhage or ischemia, toxic megacolon, severe ileus, post GI surgery or biopsy, acute GI injury or burn, or recent radiotherapy to the pelvis
- high risk of aspiration such as those with known or suspected tracheo-esophageal fistula or obtundation
- known severe hypersensitivity to barium sulfate or any of the excipients of ENTERO VU 24%

5 WARNINGS AND PRECAUTIONS

5.1 Hypersensitivity Reactions

Barium sulfate preparations contain a number of excipients, including natural and artificial flavors and may induce serious hypersensitivity reactions. The manifestations include hypotension, bronchospasm and other respiratory impairments, and dermal reactions including rashes, urticaria and itching. A history of bronchial asthma, atopy, food allergies, or a previous reaction to a contrast agent may increase the risk for hypersensitivity reactions. Emergency equipment and trained personnel should be immediately available for treatment of a hypersensitivity reaction.

5.2 Intra-abdominal Barium Leakage

The use of ENTERO VU 24% is contraindicated in patients at high risk of perforation of the GI tract *[see Contraindications (4)]*. Administration of ENTERO VU 24% may result in leakage of barium from the GI tract in the presence of conditions that increase the risk of perforation such as known carcinomas, GI fistula, inflammatory bowel disease, gastric or duodenal ulcer, appendicitis, diverticulitis, and in patients with a severe stenosis at any level of the GI tract, especially if it is distal to the stomach. Barium leakage has been associated with peritonitis and granuloma formation.

5.3 Delayed Gastrointestinal Transit and Obstruction

Orally administered barium sulfate may accumulate proximal to a constricting lesion of the colon, causing obstruction or impaction with development of baroliths (inspissated

barium associated with feces) and may cause abdominal pain, appendicitis, bowel obstruction, or perforation. Patients with the following conditions are at higher risk for developing obstruction or baroliths: severe stenosis at any level of the GI tract, impaired GI motility, electrolyte imbalance, dehydration, on a low residue diet, on medications that delay GI motility, constipation, and the elderly *[see Use in Specific Populations (8.5)]*. To reduce the risk of delayed GI transit and obstruction, patients should maintain adequate hydration after the barium sulfate procedure.

5.4 Aspiration Pneumonitis

The use of ENTERO VU 24% is contraindicated in patients with trachea-esophageal fistula *[see Contraindications (4)]*. Oral administration of barium is associated with aspiration pneumonitis, especially in patients with a history of food aspiration or with compromised swallowing mechanism. Vomiting following oral administration of barium sulfate may lead to aspiration pneumonitis. In patients at risk for aspiration, begin the procedure with a small ingested volume of ENTERO VU 24%. Monitor the patient closely for aspiration, discontinue administration of ENTERO VU 24% if aspiration is suspected, and monitor for development of aspiration pneumonitis.

5.5 Systemic Embolization

Barium sulfate products may occasionally intravasate into the venous drainage of the large bowel and enter the circulation as a "barium embolus" leading to potentially fatal complications which include systemic and pulmonary embolism, disseminated intravascular coagulation, septicemia and prolonged severe hypotension. Although this complication is uncommon after oral administration of a barium sulfate suspension, monitor patients for potential intravasation when administering barium sulfate.

5.6 Risk with Hereditary Fructose Intolerance

ENTERO VU 24% contains sorbitol which may cause severe symptoms if ingested by patients with hereditary fructose intolerance. Severe symptoms may include the following: vomiting, hypoglycemia, jaundice, hemorrhage, hepatomegaly, hyperuricemia, and kidney failure. Before administration of ENTERO VU 24% assess patients for a history of hereditary fructose intolerance and avoid use in these patients.

6 ADVERSE REACTIONS

The following adverse reactions have been identified from spontaneous reporting or clinical studies of barium sulfate administered orally. Because the reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or to establish a causal relationship to drug exposure:

- Nausea, vomiting, diarrhea and abdominal cramping
- Serious adverse reactions and fatalities include aspiration pneumonitis, barium sulfate impaction, intestinal perforation with consequent peritonitis and granuloma formation, vasovagal and syncopal episodes

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Risk Summary

ENTERO VU 24% is not absorbed systemically following oral administration, and maternal use is not expected to result in fetal exposure to the drug.

8.2 Lactation

Risk Summary

ENTERO VU 24% is not absorbed systemically by the mother following oral administration, and breastfeeding is not expected to result in exposure of the infant to the drug.

8.4 Pediatric Use

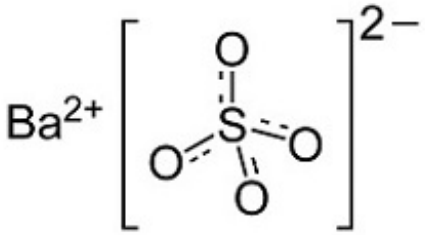
ENTERO VU 24% is not indicated for pediatric use.

8.5 Geriatric Use

Clinical studies of ENTERO VU 24% 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.

11 DESCRIPTION

ENTERO VU 24% (barium sulfate) is a radiographic contrast agent that is supplied as a suspension (24% w/v) for oral administration. The active ingredient barium sulfate is designated chemically as $BaSO_4$ with a molecular weight of 233.4 g/mol, a density of 4.5 g/cm^3, and the following chemical structure



ENTERO VU 24% contains the following excipients: acacia, carrageenan, citric acid, methylcellulose, natural and artificial blueberry flavor, polysorbate 80, potassium chloride, potassium sorbate, purified water, saccharin sodium, simethicone emulsion, sodium benzoate, sodium citrate, sorbitol solution, and xanthan gum.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Due to its high atomic number, barium (the active ingredient in ENTERO VU 24%) is opaque to x-rays and therefore acts as a positive contrast agent for radiographic studies.

12.2 Pharmacodynamics

Barium sulfate is biologically inert and has no known pharmacological effects.

12.3 Pharmacokinetics

Under physiological conditions, barium sulfate passes through the gastrointestinal tract in an unchanged form and is absorbed only in small, pharmacologically insignificant amounts.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

No animal studies have been performed to evaluate the carcinogenic potential of barium sulfate or potential effects on fertility.

16 HOW SUPPLIED/STORAGE AND HANDLING

16.1 How Supplied

ENTERO VU 24% (barium sulfate) is supplied as a suspension (24% w/v) in a single-dose HDPE plastic bottle containing 600 mL of barium sulfate suspension (24% w/v).

Provided as: 6 x 600 mL bottles (NDC 32909-146-06)

16.2 Storage and Handling

Store at USP controlled room temperature 20°C to 25°C (68°F to 77° F). Protect from freezing.

17 PATIENT COUNSELING INFORMATION

After administration, advise patients to:

- Maintain adequate hydration *[see Dosage and Administration (2.2) and Warnings and Precautions (5.3)]*.
- Seek medical attention for worsening of constipation or slow gastrointestinal passage *[see Warnings and Precautions (5.3)]*.
- Seek medical attention for any delayed onset of hypersensitivity: rash, urticaria, or respiratory difficulty *[see Warnings and Precautions (5.1)]*.

Rx only

Manufactured by

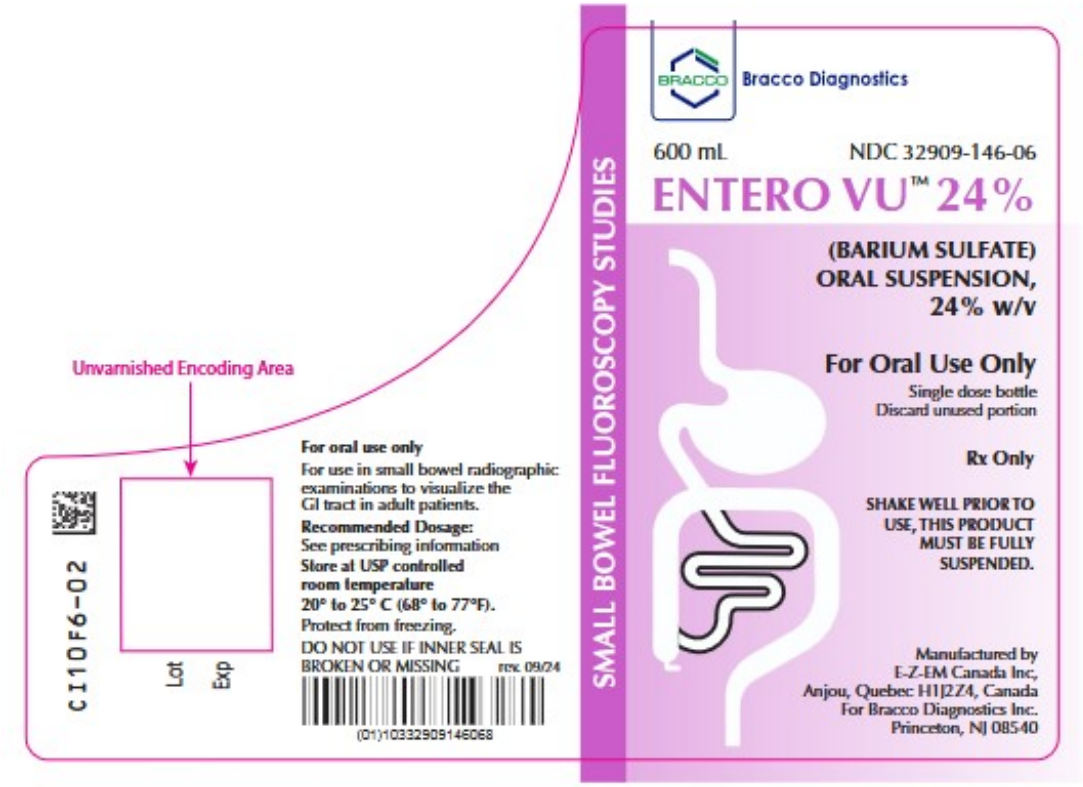
EZEM Canada Inc
Anjou (Quebec) Canada H1J 2Z4

For
Bracco Diagnostics Inc.
Princeton, NJ 08540

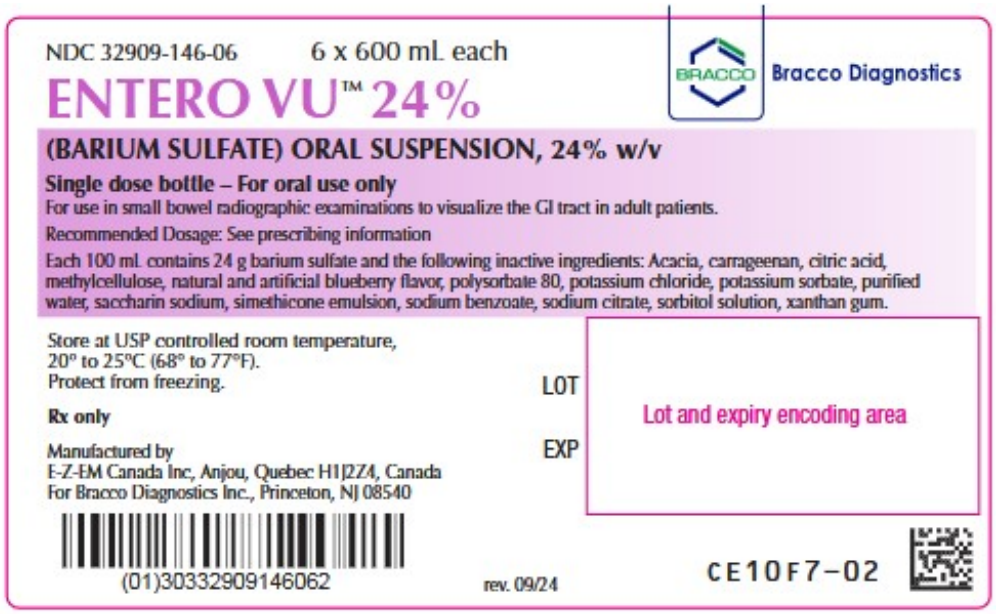
CL10F5-02

rev. 09/24

Entero Vu™ 24% - 600 ml - Inner Package
Barium Sulfate Suspension
NDC: 32909-146-06



Entero Vu™ 24% - 600 ml - Outer Package
Barium Sulfate Suspension
NDC: 32909-146-06



ENTERO VU 24%

barium sulfate suspension

Product Information			
Product Type	HUMAN PRESCRIPTION DRUG	**Item Code (Source)**	NDC:32909-145
Route of Administration	ORAL		

Active Ingredient/Active Moiety		
Ingredient Name	**Basis of Strength**	**Strength**
BARIUM SULFATE (UNII: 25BB7EKE2E) (BARIUM SULFATE - UNII:25BB7EKE2E)	BARIUM SULFATE	240 mg in 1 mL

Inactive Ingredients	
Ingredient Name	**Strength**
ACACIA (UNII: 5C5403N26O)	
ANHYDROUS CITRIC ACID (UNII: XF417D3PSL)	
CARRAGEENAN SODIUM (UNII: 7CY8BVL34N)	
DIMETHICONE 350 (UNII: 2Y53S6ATLU)	
DIMETHICONE 1000 (UNII: MCU2324216)	
METHYLCELLULOSE (400 MPA.S) (UNII: O0GN6F9B2Y)	
POLYSORBATE 80 (UNII: 6OZP39ZG8H)	
POTASSIUM CHLORIDE (UNII: 660YQ98I10)	
POTASSIUM SORBATE (UNII: 1VPU26JZZ4)	
SACCHARIN SODIUM (UNII: SB8ZUX40TY)	
SILICON DIOXIDE (UNII: ETJ7Z6XBU4)	
SODIUM BENZOATE (UNII: OJ245FE5EU)	
SORBITOL (UNII: 506T60A25R)	
TRISODIUM CITRATE DIHYDRATE (UNII: B22547B95K)	
WATER (UNII: 059QF0KO0R)	

XANTHAN GUM (UNII: TTV12P4NEE)	

Product Characteristics			
Color	WHITE	**Score**	
Shape		**Size**	
Flavor	BLUEBERRY	**Imprint Code**	
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:32909-145-06	12 in 1 CASE	05/01/2020	10/31/2021
1		600 mL in 1 JUG; Type 0: Not a Combination Product		

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
NDA	NDA208143	05/01/2020	10/31/2021

ENTERO VU 24%

barium sulfate suspension

Product Information			
Product Type	HUMAN PRESCRIPTION DRUG	**Item Code (Source)**	NDC:32909-146
Route of Administration	ORAL		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
BARIUM SULFATE (UNII: 25BB7EKE2E) (BARIUM SULFATE - UNII:25BB7EKE2E)	BARIUM SULFATE	240 mg in 1 mL

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POLYSORBATE 80 (UNII: 6OZP39ZG8H)	
POTASSIUM CHLORIDE (UNII: 660YQ98I10)	

POTASSIUM SORBATE (UNII: 1VPU26JZZ4)	
SACCHARIN SODIUM (UNII: SB8ZUX40TY)	
SILICON DIOXIDE (UNII: ETJ7Z6XBU4)	
SODIUM BENZOATE (UNII: OJ245FE5EU)	
SORBITOL (UNII: 506T60A25R)	
TRISODIUM CITRATE DIHYDRATE (UNII: B22547B95K)	
WATER (UNII: 059QF0KO0R)	
XANTHAN GUM (UNII: TTV12P4NEE)	

Product Characteristics

Color	WHITE	**Score**	
Shape		**Size**	
Flavor	BLUEBERRY	**Imprint Code**	
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:32909-146-06	6 in 1 CASE	10/01/2020	
1		600 mL in 1 JUG; Type 0: Not a Combination Product		

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
NDA	NDA208143	10/01/2020	

Labeler - E-Z-EM Canada Inc (204211163)

Registrant - BRACCO DIAGNOSTICS INC (849234661)

Establishment

Name	Address	ID/FEI	Business Operations
E-Z-EM Canada Inc		204211163	LABEL(32909-146, 32909-145) , ANALYSIS(32909-145, 32909-146) , PACK(32909-146, 32909-145) , MANUFACTURE(32909-145, 32909-146)

Revised: 5/2026 E-Z-EM Canada Inc