

TECHNETIUM TC 99M MERTIATIDE- technetium tc 99m mertiatide injection, powder, lyophilized, for solution
Jubilant DraxImage Inc., dba Jubilant Radiopharma

HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use KIT FOR THE PREPARATION OF TECHNETIUM TC 99M MERTIATIDE safely and effectively. See full prescribing information for Kit for the preparation of Technetium Tc 99m Mertiatide.

KIT FOR THE PREPARATION OF TECHNETIUM TC 99M MERTIATIDE, for intravenous use
Initial U.S. Approval: 1990

----- **INDICATIONS AND USAGE** -----

Kit for the Preparation of Technetium Tc 99m Mertiatide Injection, after radiolabeling with technetium-99m, is a radioactive diagnostic agent indicated for use in the diagnosis of congenital and acquired renal abnormalities, renal failure, urinary tract obstruction, and calculi in adults and pediatric patients aged 30 days and older. The product is a diagnostic aid in providing renal function, split function, renal angiograms, and renogram curves for whole kidney and renal cortex. (1)

----- **DOSAGE AND ADMINISTRATION** -----

- Instruct patients to drink a sufficient amount of water before administration and continue to drink and to void frequently following administration. (2.2)
- Recommended dose in adult patients: 185 MBq to 370 MBq (5 mCi to 10 mCi) as an intravenous bolus injection. (2.3)
- Recommended dose in pediatric patients aged 30 days and older: 2.6 MBq/kg to 5.2 MBq/kg (0.07 mCi/kg to 0.14 mCi/kg) with a minimum dose of 37 MBq (1 mCi) as an intravenous bolus injection. (2.3)
- See Full Prescribing Information for radiation safety, drug preparation, administration, and radiation dosimetry information. (2.1, 2.4, 2.5, 2.6, 2.7)

----- **DOSAGE FORMS AND STRENGTHS** -----

Kit for the Preparation of Technetium Tc 99m Mertiatide Injection: 1 mg betiatide as a lyophilized powder in 10 ml glass multiple-dose vial. Upon radiolabeling with technetium-99m, it contains up to 3,700 MBq (100 mCi) technetium Tc 99m mertiatide in approximately 10 mL volume at calibration time. (3)

----- **CONTRAINDICATIONS** -----

None. (4)

----- **WARNINGS AND PRECAUTIONS** -----

Radiation risks: Ensure safe handling to minimize radiation exposure to patients and healthcare providers. (5.1)

----- **ADVERSE REACTIONS** -----

Reported adverse reactions are: tachycardia, nausea, vomiting, shaking chills, fever, seizure, wheezing, dyspnea, itching, rash, and elevation in blood pressure. (6)

To report SUSPECTED ADVERSE REACTIONS, contact Jubilant DraxImage Inc. at 1-888-633-5343 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

----- **USE IN SPECIFIC POPULATIONS** -----

Lactation: Temporarily discontinue breastfeeding. A lactating woman should pump and discard breast milk for at least 24 hours after Technetium Tc99m Mertiatide administration. (8.2)

See 17 for PATIENT COUNSELING INFORMATION.

Revised: 1/2023

FULL PRESCRIBING INFORMATION: CONTENTS*

1 INDICATIONS AND USAGE

2 DOSAGE AND ADMINISTRATION

2.1 Radiation Safety – Drug Handling

- 2.2 Patient Preparation
- 2.3 Recommended Dosage
- 2.4 Drug Preparation and Handling
- 2.5 Determination of Radiochemical Purity of Technetium Tc 99m Mertiatide Injection
- 2.6 Administration Instructions
- 2.7 Radiation Dosimetry

3 DOSAGE FORMS AND STRENGTHS

4 CONTRAINDICATIONS

5 WARNINGS AND PRECAUTIONS

- 5.1 Radiation Risks

6 ADVERSE REACTIONS

8 USE IN SPECIFIC POPULATIONS

- 8.1 Pregnancy
- 8.2 Lactation
- 8.4 Pediatric Use
- 8.5 Geriatric Use

10 OVERDOSAGE

11 DESCRIPTION

- 11.1 Chemical Characteristics
- 11.2 Physical Characteristics
- 11.3 External Radiation

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

Kit for the Preparation of Technetium Tc 99m Mertiatide Injection, after radiolabeling with technetium-99m, is indicated for use in the diagnosis of congenital and acquired renal abnormalities, renal failure, urinary tract obstruction, and calculi in adults and pediatric patients aged 30 days and older. The product is a diagnostic aid in providing renal function, split function, renal angiograms, and renogram curves for whole kidney and renal cortex.

2 DOSAGE AND ADMINISTRATION

2.1 Radiation Safety - Drug Handling

After radiolabeling, the kit produces Technetium Tc 99m Mertiatide Injection. Handle Technetium Tc 99m Mertiatide Injection with appropriate safety measures to minimize radiation exposure [see *Warnings and Precautions (5.1)*]. Use waterproof gloves, effective radiation shielding, and other appropriate safety measures when preparing and handling Technetium Tc 99m Mertiatide Injection.

Radiopharmaceuticals should be used by or under the control of healthcare providers who are qualified by specific training and experience in the safe use and handling of radionuclides, and whose experience and training have been approved by the appropriate governmental agency authorized to license the use of radionuclides.

2.2 Patient Preparation

Instruct patients to drink a sufficient amount of water to ensure adequate hydration prior to administration of Technetium Tc 99m Mertiatide Injection and to continue to drink and void frequently following administration to reduce radiation exposure.

2.3 Recommended Dosage

Adult

The recommended dose in adult patients is 185 MBq to 370 MBq (5 mCi to 10 mCi) as an intravenous bolus injection.

Pediatric

The recommended dose in pediatric patients aged 30 days and older is 2.6 MBq/kg to 5.2 MBq/kg (0.07 mCi/kg to 0.14 mCi/kg) of actual body weight with a minimum dose of 37 MBq (1 mCi) as an intravenous bolus injection.

2.4 Drug Preparation and Handling

Procedural Precautions

- Contents of the vials are intended only for use in the preparation of Technetium Tc 99m Mertiatide Injection, and are NOT to be administered directly to the patient.
- Do not use Sodium Pertechnetate Tc 99m Injection USP more than 6 hours after its elution from the generator.
- Use aseptic techniques for all transfers and vial stopper entries.
- Wear waterproof gloves during the procedure, particularly during the heating of the sample with boiling water.
- Use suitable shielding to reduce radiation exposure. Use one lead shield for incubation with a water bath and another lead shield for dispensing as described in the Procedure for the Preparation of Technetium Tc 99m Mertiatide Injection section below. Make all transfers of sodium pertechnetate Tc 99m solution during the preparation procedure with an adequately shielded syringe.

Procedure for the Preparation of Technetium Tc 99m Mertiatide Injection

1. Prepare a rolling boil water bath containing a lead incubation vial shield with openings cut in it to allow the water to circulate through the shield. Orient the openings of the lead incubation shield to prevent radiation leakage.
Note: The vial should be in direct contact with the rolling boil water of the bath, and the level of the bath must be at least even with the level of the contents of the vial.
2. Ensure the temperature of the water bath used for heating the reaction vial is at boiling temperature and the temperature of the lead incubation vial shield is

equilibrated to the temperature of the water bath before proceeding with the preparation procedure below.

3. Place the reaction vial in a lead dispensing shield fitted with a lid and with a minimum wall thickness of 0.32 cm.
4. Swab the rubber stopper of the reaction vial with an appropriate antiseptic wipe. Insert a filter-containing venting needle (provided) through the vial stopper.
5. Add 4 mL to 10 mL of Sodium Pertechnetate Tc 99m Injection USP containing 740 MBq to 3,700 MBq (20 mCi to 100 mCi) into the vial using a sterile syringe. If necessary, dilute the Sodium Pertechnetate Tc 99m Injection USP with 0.9% Sodium Chloride Injection USP to the desired concentration prior to addition to the vial.
6. Immediately following the addition of Sodium Pertechnetate Tc 99m Injection USP to the reaction vial, withdraw the syringe plunger to a volume of 2 mL, thus removing 2 mL of argon gas, which adds 2 mL of filtered air to the vial to oxidize excess stannous ion and to prevent the formation of technetium-99m labeled impurities. Note: The sample vial must be placed in boiling water bath within 5 minutes of the addition of Sodium Pertechnetate Tc 99m solution.
7. Remove both needles from the vial.
8. Invert the reaction vial several times to obtain complete mixing, prior to heating.
9. Immediately transfer the reaction vial to the water bath. Place it inside the lead incubation shield which has been equilibrated to the temperature of the boiling water bath. The reaction vial should be in direct contact with the rolling boil water of the bath, and the level of the water must be at least even with the level of the contents of the vial. Incubate the reaction vial for 10 minutes.
10. Remove the reaction vial from the boiling water bath and place it in the lead dispensing shield. Allow the contents of the vial to cool for approximately 15 minutes.
11. Using proper shielding, visually inspect the vial contents. The solution should be clear and free of particulate matter. If not, do not use the preparation.
12. Assay the reaction vial using a suitable radioactivity calibration system. Record the date, time, total activity, volume, and concentration on the radioassay information label and affix the label to the lead dispensing shield.
13. Test the radiochemical purity of the prepared Technetium Tc 99m Mertiatide Injection according to the recommended method [see *Dosage and Administration (2.5)*]. If the radiochemical purity is less than 90%, do not use the product.
14. Test the radiochemical impurities of the prepared Technetium Tc 99m Mertiatide Injection according to the recommended method [see *Dosage and Administration (2.5)*]. If the sum of the hydrophilic impurities and non-elutable impurities is more than 10%, do not use the product.
15. Use the Technetium Tc 99m Mertiatide Injection within 6 hours of radiolabeling and store it at room temperature 15°C to 30°C (59°F to 86°F) until use.
16. Handle and dispose unused radioactive material in accordance with applicable regulations.

2.5 Determination of Radiochemical Purity of Technetium Tc 99m Mertiatide Injection

Required Materials

- Waters Sep-Pak™ C18 Cartridges, Part #51910
- 200 proof ethanol
- 0.9% Sodium Chloride Injection, USP
- 0.001N hydrochloric acid (May be prepared by diluting 1 mL of 0.1N hydrochloric acid

to 100 mL with Water for Injection, USP, or by other dilution of more concentrated hydrochloric acid. For example, 0.1 mL of 36% (~11.6N) hydrochloric acid diluted to a total volume of 1,150 mL)

- 1:1 ethanol: 0.9% Sodium Chloride Injection, USP (Prepared by mixing equal volumes of 200 proof ethanol and 0.9% Sodium Chloride Injection, USP)
- 10 mL disposable syringe, no needle required
- 1 mL disposable syringe, with needle
- Disposable culture tubes or vials, minimum 15 mL capacity
- Ion chamber for measurement of radioactive samples

Preparation of Sep-Pak Cartridge

1. Using a 10 mL syringe, push 10 mL of 200 proof ethanol through the Sep-Pak cartridge. Discard the eluate.
2. Flush the cartridge with 10 mL of the 0.001N hydrochloric acid. Discard the eluate.
3. Drain the cartridge by pushing 5 mL of air through the cartridge with the syringe. Discard the eluate.

Sample Analysis

1. Apply 0.1 mL of the Technetium Tc 99m Mertiatile Injection preparation to the head of the cartridge through the longer end of the cartridge using a 1 mL syringe with needle.
Note: The cartridge and all solutions eluted from it will be radioactive after this step, therefore, use lead dispensing shield to minimize radiation exposure.
2. With a disposable 10 mL syringe, slowly push 10 mL of 0.001N hydrochloric acid through the cartridge. Collect this fraction in a first culture tube or vial for counting.
3. Elute the cartridge with 10 mL of the 1:1 ethanol: 0.9% Sodium Chloride Injection USP solution. Ensure that this solution is pushed through the cartridge slowly so that the elution occurs in a drop-wise manner. Collect this 10 mL fraction in a second culture tube or vial for counting.
4. Place the Sep-Pak cartridge in a third culture tube or vial for counting.

Counting

1. Assay the activity of the first fraction (in 0.001N hydrochloric acid) in an ion chamber. This fraction contains the hydrophilic impurities (free pertechnetate, technetium tartrate, etc.) and a fraction of reduced-hydrolyzed technetium.
2. Assay the activity of the second fraction (in 1:1 ethanol: 0.9% Sodium Chloride Injection, USP). This fraction contains Technetium Tc 99m Mertiatile.
3. Assay the activity of the Sep-Pak cartridge in the third culture tube or vial. This component contains the remaining reduced-hydrolyzed technetium and non-elutable impurities.

Calculations

$$\text{Percent Technetium Tc 99m Mertiatile} = \frac{\text{Activity of 2}^{\text{nd}} \text{ (1:1 ethanol: 0.9\% Sodium Chloride Injection) fraction} \times 100\%}{\text{Total activity of all 3 fractions}}$$

Note: Not less than 90% of the activity must be Technetium Tc 99m Mertiatile.

$$\text{Percent hydrophilic impurities} = \frac{\text{Activity of 1}^{\text{st}} \text{ (0.001N hydrochloric acid) fraction} \times 100\%}{\text{Total activity of all 3 fractions}}$$

Total activity of all 3 fractions

$$3. \text{ Percent non-elutable impurities} = \frac{\text{Activity remaining on Sep-Pak cartridge}}{\text{Total activity of all 3 fractions}} \times 100\%$$

Note: Total impurities must not be more than 10%.

2.6 Administration Instructions

- Measure the patient dose using a suitable radioactivity calibration system immediately prior to administration.
- Visually inspect the prepared Technetium Tc 99m Mertiatide Injection behind a lead glass shield for particulate matter and discoloration prior to administration. Only use solutions that are clear without visible particles.
- Use aseptic procedures and a shielded syringe to withdraw doses for administration to patients. Wear waterproof gloves during the administration procedure.

2.7 Radiation Dosimetry

The estimated radiation doses per injected activity of Technetium Tc 99m Mertiatide Injection by an intravenous administration are presented in Table 1.

Table 1. Estimated Radiation Equivalent Dose for Intravenously Administered Technetium Tc 99m Mertiatide*

Radiation Equivalent Dose per Unit Activity Administered (mSv/MBq)

Organ	Adult	15 Years	10 Years	5 Years	1 Year	8 Days**
Gallbladder Wall	0.0044	0.0053	0.007	0.011	0.034	0.073
Lower Large Intestine Wall	0.0088	0.011	0.01	0.016	0.022	0.047
Small Intestine	0.0044	0.0055	0.0059	0.0085	0.0075	0.014
Upper Large Intestine Wall	0.0051	0.0066	0.0086	0.013	0.013	0.026
Kidneys	0.0039	0.0047	0.0064	0.0093	0.015	0.038
Liver	0.00098	0.0013	0.0018	0.0028	0.0042	0.0087
Ovaries	0.007	0.009	0.0065	0.0094	0.0085	0.016
Red Marrow	0.0013	0.0017	0.0015	0.002	0.0022	0.0044
Testes	0.0044	0.0064	0.005	0.0077	0.0073	0.014
Urinary Bladder Wall	0.13	0.16	0.1	0.15	0.13	0.31
Total Body	0.0018	0.0022	0.0017	0.0026	0.003	0.0045

*Calculated by Oak Ridge Associated Universities, based upon the pediatric phantom series of Christy and Eckerman of Oak Ridge National Laboratories. The adult radiation absorbed doses were calculated based on data from 10 healthy subjects using the Medical Internal Radiation Dose Committee (MIRD) schema.

** Technetium Tc 99m Mertiatide Injection is not approved for pediatric patients younger

than 30 days old [see *Indications and Usage (1)*].

3 DOSAGE FORMS AND STRENGTHS

Kit for the Preparation of Technetium Tc 99m Mertiatide Injection contains 1 mg betiatide supplied as a white lyophilized powder packaged in 10 mL glass multiple-dose vials. Radiolabeling with sodium pertechnetate Tc 99m injection provides a clear, colorless solution containing up to 3,700 MBq (100 mCi) technetium Tc 99m mertiatide in approximately 10 mL volume at calibration time..

4 CONTRAINDICATIONS

None.

5 WARNINGS AND PRECAUTIONS

5.1 Radiation Risks

Technetium Tc 99m Mertiatide Injection contributes to a patient's overall long-term cumulative radiation exposure. Long-term cumulative radiation exposure is associated with an increased risk for cancer. Ensure safe handling to minimize radiation exposure to the patient and healthcare providers. Advise patients to hydrate before and after administration and to void frequently after administration [see *Dosage and Administration (2.2)*].

6 ADVERSE REACTIONS

The following adverse reactions associated with the use of Technetium Tc 99m Mertiatide Injection were identified in clinical studies or postmarketing reports. Because some of these reactions are voluntarily reported from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure.

Cardiac disorders: tachycardia.

Gastrointestinal disorders: nausea, vomiting.

General disorders and administration site conditions: shaking chills, fever.

Nervous system disorders: seizure.

Respiratory, thoracic and mediastinal disorders: wheezing, dyspnea.

Skin and subcutaneous tissue disorders: itching, rash.

Vascular disorders: elevation in blood pressure.

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Risk Summary

There are no data with technetium Tc 99m mertiatide use in pregnant women to determine a drug-associated risk for major birth defects, miscarriage, or other adverse

maternal or fetal outcomes. No animal reproductive studies have been conducted with technetium Tc 99m mertiatide. Although all radiopharmaceuticals have the potential to cause fetal harm depending on the fetal stage of development and the magnitude of the radiation dose, the radiation exposure to the fetus from technetium Tc 99m mertiatide is expected to be low (*see Data*).

The background risk of major birth defects and miscarriage for the indicated population is unknown. All pregnancies have a background risk of birth defects, 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 are 2% to 4% and 15% to 20%, respectively.

Data

Human Data

No adverse fetal effects of radiation risks have been identified for diagnostic procedures involving less than 50 mGy, which represents less than 10 mGy fetal doses.

8.2 Lactation

Risk Summary

There are no data on the presence of technetium Tc 99m mertiatide in breast milk, however, published case reports describe the presence of technetium Tc 99m in breast milk. There are no data on the effects of technetium Tc 99m mertiatide on the breastfed infant or the effects on milk production. Based on clinical guidelines, exposure of technetium Tc 99m mertiatide to a breastfed infant may be minimized by advising a lactating woman to temporarily discontinue breastfeeding and to pump and discard breast milk for a minimum of 24 hours after administration of Technetium Tc 99m Mertiatide Injection. The developmental and health benefits of breastfeeding should be considered along with a mother's clinical need for Technetium Tc 99m Mertiatide Injection and any potential adverse effects on the breastfed child from technetium Tc 99m mertiatide or from the underlying maternal condition.

8.4 Pediatric Use

Kit for the Preparation of Technetium Tc 99m Mertiatide Injection, after radiolabeling with technetium-99m, is indicated for use in the diagnosis of congenital and acquired renal abnormalities, renal failure, urinary tract obstruction, and calculi in pediatric patients aged 30 days and older.

The safety and effectiveness of Kit for the Preparation of Technetium Tc 99m Mertiatide Injection have not been established in pediatric patients younger than 30 days old.

8.5 Geriatric Use

No formal studies of Technetium Tc 99m Mertiatide Injection in subjects aged 65 and over were performed to determine whether they respond differently than younger adult subjects.

10 OVERDOSAGE

In the event of an overdose of technetium Tc 99m mertiatide, hydration and frequent

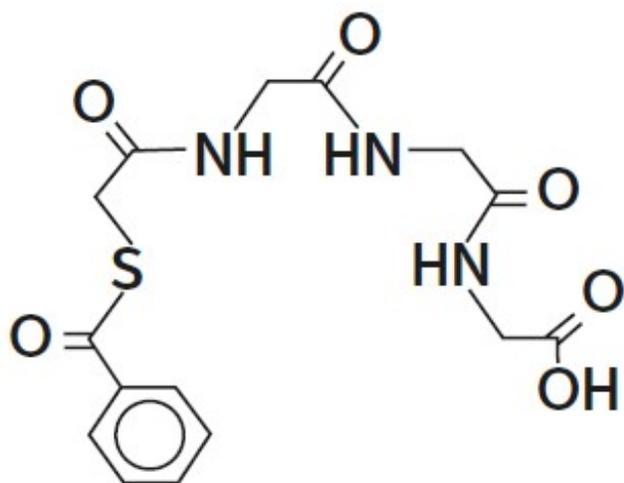
micturition should be encouraged to minimize the absorbed radiation dose to patient. A diuretic might also be considered. If possible, an estimate of the radiation effective dose given to the patient should be made.

11 DESCRIPTION

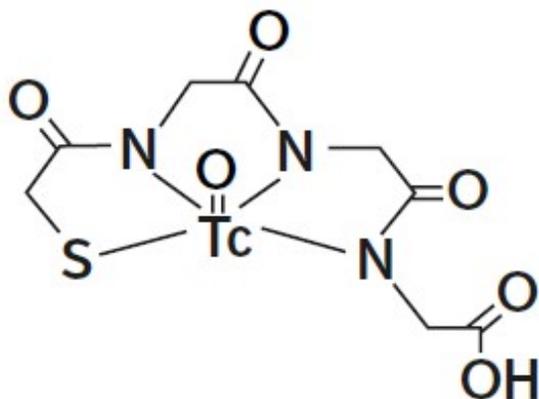
11.1 Chemical Characteristics

Kit for the Preparation of Technetium Tc 99m Mertiatide Injection is a sterile, multiple-dose kit for the preparation of technetium Tc 99m mertiatide injection, a radioactive diagnostic agent for intravenous use.

The active ingredient, betiatide, is N-[N-[N-[(benzoylthio) acetyl]glycyl]glycyl]-glycine and has a molecular weight of 367.38 g/mol. After reconstitution with sodium pertechnetate Tc 99m injection, the radioactive agent technetium Tc 99m mertiatide (disodium[N-[N-[N-(mercaptoacetyl) glycyl]glycyl] glycinato (2-) - N,N',N'',S']oxotechnetate (2-)) is formed in situ.



betiatide



technetium Tc 99m mertiatide

Each 10 mL vial contains 1 mg betiatide, 20 mg lactose monohydrate, 40 mg sodium

tartrate dihydrate, 0.07 mg (minimum) stannous chloride dihydrate and 0.2 mg (maximum) total tin expressed as stannous chloride dihydrate. Prior to lyophilization, hydrochloric acid is added for pH adjustment. The vial contents are sealed under argon.

After radiolabeling with sodium pertechnetate Tc 99m injection, each vial contains up to 3,700 MBq (100 mCi) of technetium Tc 99m mertiatide in 0.9% sodium chloride injection in approximately 10 mL volume as a sterile, clear, and colorless solution with a pH between 5 and 6.

11.2 Physical Characteristics

Technetium Tc 99m decays by isomeric transition with a physical half-life of 6.02 hours. The principal photon that is useful for detection and imaging is listed in Table 2.

Table 2. Principal Radiation Emission Data

Radiation M	Mean % per Disintegration	Energy (keV)
Gamma-2	89.07	140.5

To correct for physical decay of the radionuclide, the fractions that remain at selected time intervals after the time of calibration are shown in Table 3.

Table 3. Physical Decay Chart: Technetium Tc 99m, Half-life 6.02 Hours

Hours	Fraction Remaining	Hours	Fraction Remaining
0*	1.000	7	0.447
1	0.891	8	0.398
2	0.794	9	0.355
3	0.708	10	0.316
4	0.631	11	0.282
5	0.562	12	0.251
6	0.501		

* Calibration Time

11.3 External Radiation

The specific gamma ray constant for technetium-99m is 0.78 R/mCi-hr at 1 cm. The first half-value thickness of lead (Pb) for technetium-99m is 0.017 cm. The use of 0.25 cm of Pb, for example, will decrease the external radiation exposure by a factor of about 1,000. Table 4 displays the radiation attenuation by lead shielding.

Table 4. Radiation Attenuation by Lead Shielding

Shield Thickness (Pb)	Coefficient of
-----------------------	----------------

Thickness (FD) cm	Attenuation
0.017	0.5
0.08	10^{-1}
0.16	10^{-2}
0.25	10^{-3}
0.33	10^{-4}

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Following intravenous administration for renal imaging, Technetium Tc 99m Mertiatide is rapidly cleared from the blood. It is cleared by the kidneys and excreted in the urine.

12.2 Pharmacodynamics

Following intravenous injection of technetium Tc 99m mertiatide, the uptake, concentration, and excretion of the tracer by the kidney can be monitored to assess renal function.

12.3 Pharmacokinetics

Distribution

After an intravenous administration in healthy adult subjects, 89% of technetium Tc 99m mertiatide was plasma-protein bound. The protein binding is reversible.

Elimination

Excretion

In healthy subjects, the plasma clearance was approximately 0.3 liters/minute and the amount of technetium Tc 99m mertiatide excreted in the urine in 3 hours was nearly 90% of the injected dose.

Specific Populations

Patients with Renal Impairment

In a study performed in three patients with renal impairment (serum creatinine greater than 6.3 mg/dL), 78% of the tracer was plasma protein bound after intravenous injection. The mean plasma clearance of technetium Tc 99m mertiatide was 0.03 liters/minute and 21.3% was excreted in 3 hours on average. In both healthy subjects and patients with renal impairment, the plasma concentration-time profile showed a biexponential decline.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

No long term animal studies have been performed to evaluate carcinogenic or mutagenic potential, or whether this drug affects fertility in males or females.

16 HOW SUPPLIED/STORAGE AND HANDLING

How Supplied

Kit for the Preparation of Technetium Tc 99m Mertiatide Injection containing 1 mg betiatide, is supplied as a white lyophilized powder packaged in a sterile, multiple-dose 10 mL vial as a carton of 5 vials (NDC 65174-261-05). The carton also contains:

- 5 venting needles with filter.
- 5 radioassay information labels for the radiolabeled product.

The radionuclide is not part of Kit for the Preparation of Technetium Tc 99m Mertiatide Injection.

Storage and Handling

Before radiolabeling, store at controlled room temperature 20°C to 25°C (68°F to 77°F) [see USP Controlled Room Temperature] and protect from light.

After radiolabeling with sodium pertechnetate Tc 99m injection, store vial upright in shielding to protect from radiation at room temperature 15°C to 30°C (59°F to 86°F). Use within 6 hours of radiolabeling.

Dispose of unused Technetium Tc 99m Mertiatide Injection in compliance with the regulations of the government agency authorized to license the use of this radionuclide.

This preparation is approved for use by persons under license by the Nuclear Regulatory Commission or the relevant regulatory authority of an Agreement State.

17 PATIENT COUNSELING INFORMATION

Adequate Hydration

Advise patients to drink sufficient amount of water to ensure adequate hydration before administration of Technetium Tc 99m Mertiatide Injection and to continue to drink and void frequently following administration to minimize radiation dose [see *Dosage and Administration (2.2) and Warning and Precautions (5.1)*].

Pregnancy:

Advise pregnant women of the risk of fetal exposure to radiation doses if they undergo a radionuclide procedure [see *Use in Specific Populations (8.1)*].

Lactation:

Advise a lactating woman to temporarily discontinue breastfeeding and to pump and discard breast milk for at least 24 hours after Technetium Tc 99m Mertiatide Injection administration to minimize radiation exposure to a breastfed infant [see *Use in Specific Populations (8.2)*].

Manufactured for:

Jubilant DraxImage Inc., dba Jubilant Radiopharma™

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Art Rev.: 3.0

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PACKAGE/LABEL PRINCIPAL DISPLAY PANEL - 5 VIAL BOX

NDC 65174-261-05

Kit for the Preparation of Technetium Tc 99m Mertiatide

1 mg Betiatide per Vial

Rx only

For intravenous use only after radiolabeling with

Sodium Pertechnetate Tc 99m Injection, USP

DIAGNOSTIC - For Renal Imaging

Manufactured for:

Jubilant DraxImage Inc., dba Jubilant Radiopharma™

Kirkland, Quebec H9H 4J4 Canada

1-888-633-5343, www.jubilantradiopharma.com

CONTENTS:

Five (5) sterile, non-pyrogenic multiple-dose vials of Kit for the preparation of technetium Tc 99m mertiatide, 5 radioassay information labels, 5 venting needles (filter containing) and 1 prescribing information.

Each 10 mL multiple dose vial contains: 1 mg betiatide, 20 mg lactose monohydrate, 40 mg tartrate dihydrate, 0.07 (minimum) stannous chloride dihydrate, and 0.2 mg (maximum) total tin as stannous chloride dihydrate. Hydrochloric acid is added for pH adjustment, prior to lyophilization.

The pH of the reconstituted drug is between 5 and 6.

The contents are sealed under argon.

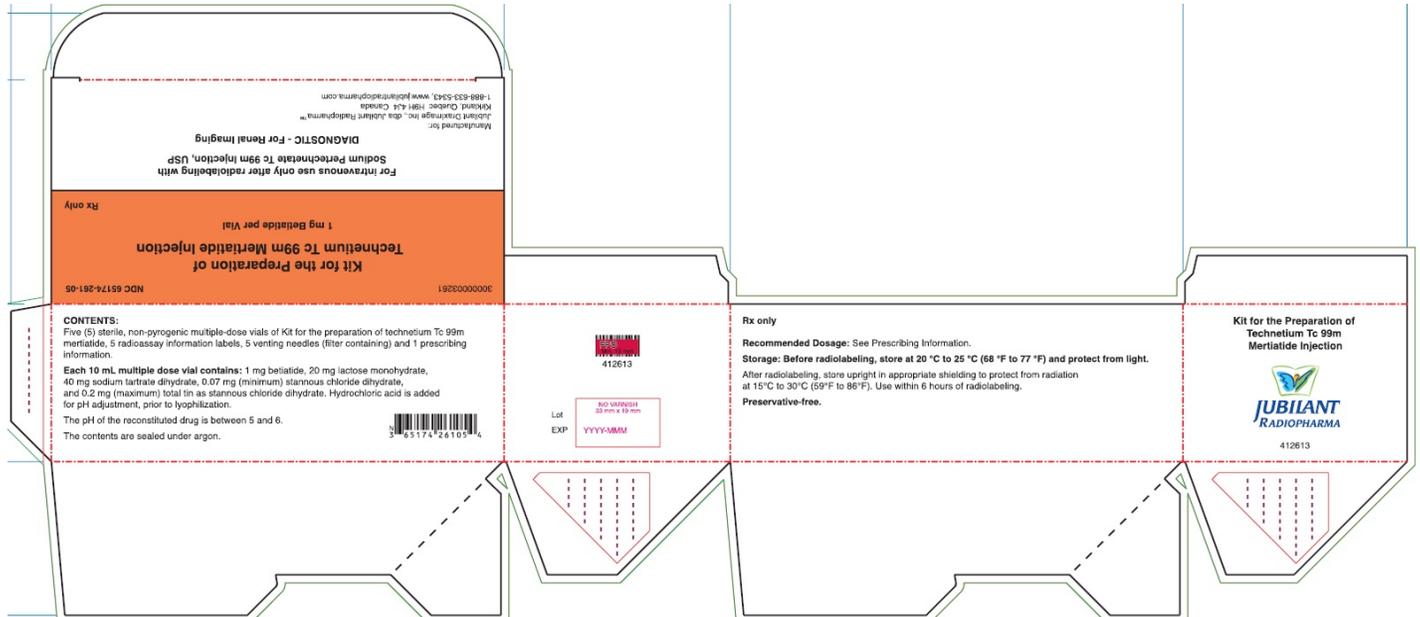
Rx only

Recommended Dosage: See Prescribing Information.

Storage: Before radiolabeling, store at 20 °C to 25 °C (68 °F to 77 °F) and protect from light.

After radiolabeling, store upright in appropriate shielding to protect from radiation at 15°C to 30°C (59°F to 86°F). Use within 6 hours of radiolabeling.

Preservative-free.



PACKAGE/LABEL PRINCIPAL DISPLAY PANEL - VIAL CONTAINER (10 mL Multi-Dose Reaction Vial)

Sterile NDC 65174-261-01

**Kit for the Preparation of Technetium Tc 99m Mertiatide Injection
1 mg Betiatide per Vial Rx only**

Multiple-dose reaction vial

For intravenous use only after radiolabeling with Sodium Pertechnetate Tc 99m Injection USP.

Recommended Dosage: See Prescribing information.

Store at 20 °C to 25 °C (68 °F to 77 °F) and protect from light. Use within 6 hours of radiolabeling.

Manufactured for:
Jubilant DraxImage Inc.
Kirkland, Quebec, Canada H9H 4J4

Category	Citation	Date	Date
NDA	NDA216820	03/31/2023	

Labeler - Jubilant DraxImage Inc., dba Jubilant Radiopharma (243604761)

Registrant - Jubilant DraxImage Inc., dba Jubilant Radiopharma (243604761)

Establishment

Name	Address	ID/FEI	Business Operations
Jubilant DraxImage Inc., dba Jubilant Radiopharma		243604761	analysis(65174-261)

Establishment

Name	Address	ID/FEI	Business Operations
Jubilant HollisterStier General Partnership		246762764	manufacture(65174-261)

Revised: 1/2023

Jubilant DraxImage Inc., dba Jubilant Radiopharma