

AMMONIA N 13- ammonia n-13 injection
PETNET Solutions, Inc.

HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use Ammonia N 13 Injection safely and effectively. See full prescribing information for Ammonia N 13 Injection.

Ammonia N 13 Injection for intravenous use

Initial U.S. Approval: 2007

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

Ammonia N 13 Injection is a radioactive diagnostic agent for Positron Emission Tomography (PET) indicated for diagnostic PET imaging of the myocardium under rest or pharmacologic stress conditions to evaluate myocardial perfusion in patients with suspected or existing coronary artery disease (1).

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

Rest Imaging Study (2.1):

- Aseptically withdraw Ammonia N 13 Injection from its container and administer 10 mCi – 20 mCi (0.368 GBq – 0.736 GBq) as a bolus through a catheter inserted into a large peripheral vein.
- Start imaging 3 minutes after the injection and acquire images for a total of 10 minutes – 20 minutes.

Stress Imaging Study (2.2):

- If a rest imaging study is performed, begin the stress imaging study 40 minutes or more after the first Ammonia N13 injection to allow sufficient isotope decay.
- Administer a pharmacologic stress-inducing drug in accordance with its labeling.
- Aseptically withdraw Ammonia N 13 Injection from its container and administer 10 mCi – 20 mCi (0.368 GBq – 0.736 GBq) of Ammonia N 13 Injection as a bolus at 8 minutes after the administration of the pharmacologic stress-inducing drug.
- Start imaging 3 minutes after the Ammonia N 13 Injection and acquire images for a total of 10 minutes – 20 minutes.

Patient Preparation (2.3):

- To increase renal clearance of radioactivity and to minimize radiation dose to the bladder, hydrate the patient before the procedure and encourage voiding as soon as each image acquisition is completed and as often as possible thereafter for at least one hour.

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

Glass vial containing 0.138 GBq/mL – 1.387 GBq/mL (3.75 mCi/mL – 37.5 mCi/mL) of Ammonia N 13 Injection in aqueous 0.9 % sodium chloride solution (approximately 7 mL volume) (3).

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

None (4)

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

Ammonia N 13 Injection may increase the risk of cancer. Use the smallest dose necessary for imaging and ensure safe handling to protect the patient and health care worker (5).

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

No adverse reactions have been reported for Ammonia N 13 Injection based on a review of the published literature, publicly available reference sources, and adverse drug reaction reporting system (6).

To report SUSPECTED ADVERSE REACTIONS, contact PETNET Solutions, Inc. at 877-473-8638 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

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

- It is not known whether this drug is excreted in human milk. Alternatives to breastfeeding (e.g. using stored breast milk or infant formula) should be used for 2 hours (>10 half-lives of radioactive decay for N 13 isotope) after administration of Ammonia N 13 Injection (8.3).
- The safety and effectiveness of Ammonia N 13 Injection has been established in pediatric patients (8.4).

See 17 for PATIENT COUNSELING INFORMATION.

Revised: 1/2016

2 DOSAGE AND ADMINISTRATION

- 2.1 Rest Imaging Study
- 2.2 Stress Imaging Study
- 2.3 Patient Preparation
- 2.4 Radiation Dosimetry
- 2.5 Drug Handling

3 DOSAGE FORMS AND STRENGTHS

4 CONTRAINDICATIONS

5 WARNINGS AND PRECAUTIONS

- 5.1 Radiation Risks

6 ADVERSE REACTIONS

7 DRUG INTERACTIONS

8 USE IN SPECIFIC POPULATIONS

- 8.1 Pregnancy
- 8.3 Nursing Mothers
- 8.4 Pediatric Use

11 DESCRIPTION

- 11.1 Chemical Characteristics
- 11.2 Physical Characteristics

12 CLINICAL PHARMACOLOGY

- 12.1 Mechanism of Action
- 12.2 Pharmacodynamics
- 12.3 Pharmacokinetics

13 NONCLINICAL TOXICOLOGY

- 13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

14 CLINICAL STUDIES

15 REFERENCES

16 HOW SUPPLIED/STORAGE AND HANDLING

17 PATIENT COUNSELING INFORMATION

- 17.1 Pre-study Hydration
- 17.2 Post-study Voiding
- 17.3 Post-study Breastfeeding Avoidance

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

FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE

Ammonia N 13 Injection is indicated for diagnostic Positron Emission Tomography (PET) imaging of the myocardium under rest or pharmacologic stress conditions to evaluate myocardial perfusion in patients with suspected or existing coronary artery disease.

2 DOSAGE AND ADMINISTRATION

2.1 Rest Imaging Study

- Aseptically withdraw Ammonia N 13 Injection from its container and administer 10 mCi – 20 mCi (0.368 GBq – 0.736 GBq) as a bolus through a catheter inserted into a large peripheral vein.
- Start imaging 3 minutes after the injection and acquire images for a total of 10 minutes – 20 minutes.

2.2 Stress Imaging Study

- If a rest imaging study is performed, begin the stress imaging study 40 minutes or more after the first Ammonia N 13 injection to allow sufficient isotope decay.
- Administer a pharmacologic stress-inducing drug in accordance with its labeling.
- Aseptically withdraw Ammonia N 13 Injection from its container and administer 10 mCi – 20 mCi (0.368 GBq – 0.736 GBq) of Ammonia N 13 Injection as a bolus at 8 minutes after the administration of the pharmacologic stress-inducing drug.
- Start imaging 3 minutes after the Ammonia N 13 Injection and acquire images for a total of 10 minutes – 20 minutes.

2.3 Patient Preparation

To increase renal clearance of radioactivity and to minimize radiation dose to the bladder, ensure that the patient is well hydrated before the procedure and encourage voiding as soon as a study is completed and as often as possible thereafter for at least one hour.

2.4 Radiation Dosimetry

The converted radiation absorbed doses in rem/mCi are shown in Table 1. These estimates are calculated from the Task Group of Committee 2 of the International Commission on Radiation Protection.¹

Table 1: N 13 Absorbed Radiation Dose Per Unit Activity (rem/mCi) for Adults and Pediatric Groups.

Organ	Adult	15 - year old	10 - year old	5 - year old	1 - year old
Adrenals	0.0085	0.0096	0.016	0.025	0.048
Bladder wall	0.030	0.037	0.056	0.089	0.17
Bone surfaces	0.0059	0.0070	0.011	0.019	0.037
Brain	0.016	0.016	0.017	0.019	0.027
Breast	0.0067	0.0067	0.010	0.017	0.033
Stomach wall	0.0063	0.0078	0.012	0.019	0.037
Small intestine	0.0067	0.0081	0.013	0.021	0.041
*ULI	0.0067	0.0078	0.013	0.021	0.037
**LLI	0.0070	0.0078	0.013	0.020	0.037
Heart	0.0078	0.0096	0.015	0.023	0.041
Kidneys	0.017	0.021	0.031	0.048	0.089
Liver	0.015	0.018	0.029	0.044	0.085
Lungs	0.0093	0.011	0.018	0.029	0.056
Ovaries	0.0063	0.0085	0.014	0.021	0.041
Pancreas	0.0070	0.0085	0.014	0.021	0.041
Red marrow	0.0063	0.0078	0.012	0.020	0.037
Spleen	0.0093	0.011	0.019	0.030	0.056
Testes	0.0067	0.0070	0.011	0.018	0.035
Thyroid	0.0063	0.0081	0.013	0.021	0.041
Uterus	0.0070	0.0089	0.014	0.023	0.041
Other tissues	0.0059	0.0070	0.011	0.018	0.035

*Upper large intestine, **Lower large intestine

2.5 Drug Handling

- Inspect Ammonia N 13 Injection visually for particulate matter and discoloration before administration, whenever solution and container permit.

- Do not administer Ammonia N 13 Injection containing particulate matter or discoloration; dispose of these unacceptable or unused preparations in a safe manner, in compliance with applicable regulations.
- Wear waterproof gloves and effective shielding when handling Ammonia N 13 Injection.
- Use aseptic technique to maintain sterility during all operations involved in the manipulation and administration of Ammonia N 13 Injection. The contents of each vial are sterile and non-pyrogenic.
- Use appropriate safety measures, including shielding, consistent with proper patient management to avoid unnecessary radiation exposure to the patient, occupational workers, clinical personnel, and other persons.
- Radiopharmaceuticals should be used by or under the control of physicians 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.
- Before administration of Ammonia N 13 Injection, assay the dose in a properly calibrated dose calibrator.

3 DOSAGE FORMS AND STRENGTHS

Glass vial (30 mL) containing 0.138 GBq/mL – 1.387 GBq/mL (3.75 mCi/mL – 37.5 mCi/mL) of Ammonia N 13 Injection in aqueous 0.9 % sodium chloride solution (approximately 7 mL volume) that is suitable for intravenous administration.

4 CONTRAINDICATIONS

None

5 WARNINGS AND PRECAUTIONS

5.1 Radiation Risks

Ammonia N 13 Injection may increase the risk of cancer. Use the smallest dose necessary for imaging and ensure safe handling to protect the patient and health care worker [*see Dosage and Administration (2.4)*].

6 ADVERSE REACTIONS

No adverse reactions have been reported for Ammonia N 13 Injection based on a review of the published literature, publicly available reference sources, and adverse drug reaction reporting systems. However, the completeness of these sources is not known.

7 DRUG INTERACTIONS

The possibility of interactions of Ammonia N 13 Injection with other drugs taken by patients undergoing PET imaging has not been studied.

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Pregnancy Category C

Animal reproduction studies have not been conducted with Ammonia N 13 Injection. It is also not known whether Ammonia N 13 Injection can cause fetal harm when administered to a pregnant woman or can

affect reproduction capacity. Ammonia N 13 Injection should be given to a pregnant woman only if clearly needed.

8.3 Nursing Mothers

It is not known whether this drug is excreted in human milk. Because many drugs are excreted in human milk and because of the potential for radiation exposure to nursing infants from Ammonia N 13 Injection, use alternative infant nutrition sources (e.g. stored breast milk or infant formula) for 2 hours (>10 half-lives of radioactive decay for N 13 isotope) after administration of the drug or avoid use of the drug, taking into account the importance of the drug to the mother.

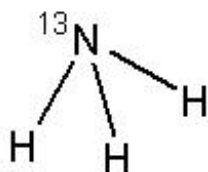
8.4 Pediatric Use

The safety and effectiveness of Ammonia N 13 Injection has been established in pediatric patients based on known metabolism of ammonia, radiation dosimetry in the pediatric population, and clinical studies in adults [see Dosage and Administration (2.4)].

11 DESCRIPTION

11.1 Chemical Characteristics

Ammonia N 13 Injection is a positron emitting radiopharmaceutical that is used for diagnostic purposes in conjunction with positron emission tomography (PET) imaging. The active ingredient, [¹³N] ammonia, has the molecular formula of ¹³NH₃ with a molecular weight of 16.02, and has the following chemical structure:



Ammonia N 13 Injection is provided as a ready to use sterile, pyrogen-free, clear and colorless solution. Each mL of the solution contains between 0.138 GBq to 1.387 GBq (3.75 mCi to 37.5 mCi) of [¹³N] ammonia, at the end of synthesis (EOS) reference time, in 0.9% aqueous sodium chloride. The pH of the solution is between 4.5 to 7.5. The recommended dose of radioactivity (10 mCi – 20 mCi) is associated with a theoretical mass dose of 0.5 picomoles – 1.0 picomoles (8.47 picograms – 16.94 picograms) of ammonia.

11.2 Physical Characteristics

Nitrogen N13 decays by emitting positron to Carbon C13 (stable) and has a physical half-life of 9.96 minutes. The principal photons useful for imaging are the dual 511 keV gamma photons that are produced and emitted simultaneously in opposite direction when the positron interacts with an electron (Table 2).

Table 2: Principal Radiation Emission Data for Nitrogen 13

Radiation/Emission	% Per Disintegration	Energy
--------------------	----------------------	--------

Positron(β^+)	100	1190 keV (Max.)
Gamma(\pm)*	200	511 keV

*Produced by positron annihilation

The specific gamma ray constant (point source air kerma coefficient) for nitrogen N13 is 5.9 R/hr/mCi (1.39×10^{-6} Gy/hr/kBq) at 1 cm. The half-value layer (HVL) of lead (Pb) for 511 keV photons is 4 mm. Selected coefficients of attenuation are listed in Table 3 as a function of lead shield thickness. For example, the use of 39 mm thickness of lead will attenuate the external radiation by a factor of about 1000.

Table 3: Radiation Attenuation of 511 keV Photons by lead (Pb) shielding

Shield Thickness (Pb) mm	Coefficient of Attenuation
4	0.5
8	0.25
13	0.1
26	0.01
39	0.001
52	0.0001

Table 4 lists fractions remaining at selected time intervals from the calibration time. This information may be used to correct for physical decay of the radionuclide.

Table 4: Physical Decay Chart for Nitrogen N 13

Minutes	Fraction Remaining
0*	1.000
5	0.706
10	0.499
15	0.352
20	0.249
25	0.176
30	0.124

*Calibration time

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Ammonia N 13 Injection is a radiolabeled analog of ammonia that is distributed to all organs of the body after intravenous administration. It is extracted from the blood in the coronary capillaries into the myocardial cells where it is metabolized to glutamine N 13 and retained in the cells. The presence of ammonia N 13 and glutamine N 13 in the myocardium allows for PET imaging of the myocardium.

12.2 Pharmacodynamics

Following intravenous injection, ammonia N 13 enters the myocardium through the coronary arteries. The PET technique measures myocardial blood flow based on the assumption of a three-compartmental

disposition of intravenous ammonia N 13 in the myocardium. In this model, the value of the rate constant, which represents the delivery of blood to myocardium, and the fraction of ammonia N 13 extracted into the myocardial cells, is a measure of myocardial blood flow. Optimal PET imaging of the myocardium is generally achieved between 10 minutes to 20 minutes after administration.

12.3 Pharmacokinetics

Following intravenous injection, Ammonia N 13 Injection is cleared from the blood with a biologic half-life of about 2.84 minutes (effective half-life of about 2.21 minutes). In the myocardium, its biologic half-life has been estimated to be less than 2 minutes (effective half-life less than 1.67 minutes).

The mass dose of Ammonia N 13 Injection is very small as compared to the normal range of ammonia in the blood (0.72 mg – 3.30 mg) in a healthy adult man [*see Description (11.1)*].

Plasma protein binding of ammonia N 13 or its N 13 metabolites has not been studied.

Ammonia N 13 undergoes a five-enzyme step metabolism in the liver to yield urea N 13 (the main circulating metabolite). It is also metabolized to glutamine N 13 (the main metabolite in tissues) by glutamine synthesis in the skeletal muscles, liver, brain, myocardium, and other organs. Other metabolites of ammonia N 13 include small amounts of N 13 amino acid anions (acidic amino acids) in the forms of glutamate N 13 or aspartate N 13.

Ammonia N 13 is eliminated from the body by urinary excretion mainly as urea N 13.

The pharmacokinetics of Ammonia N 13 Injection have not been studied in renally impaired, hepatically impaired, or pediatric patients.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Long term animal studies have not been performed to evaluate the carcinogenic potential of Ammonia N 13 Injection. Genotoxicity assays and impairment of male and female fertility studies with Ammonia N 13 Injection have not been performed.

14 CLINICAL STUDIES

In a descriptive, prospective, blinded image interpretation study of adult patients with known or suspected coronary artery disease², myocardial perfusion deficits in stress and rest PET images obtained with Ammonia N 13 (N=111) or Rubidium 82 (N=82) were compared to changes in stenosis flow reserve (SFR) as determined by coronary angiography. The principal outcome of the study was the evaluation of PET defect severity relative to SFR.

PET perfusion defects at rest and stress for seven cardiac regions (anterior, apical, anteroseptal, posteroseptal, anterolateral, posterolateral, and inferior walls) were graded on a 0 to 5 scale defined as normal (0), possible (1), probable (2), mild (3), moderate (4), and severe (5) defects. Coronary angiograms were used to measure absolute and relative stenosis dimensions and to calculate stenosis flow reserve defined as the maximum value of flow at maximum coronary vasodilatation relative to rest flow under standardized hemodynamic conditions. SFR scores ranged from 0 (total occlusion) to 5 (normal).

With increasing impairment of flow reserve, the subjective PET defect severity increased. A PET defect score of 2 or higher was positively correlated with flow reserve impairment (SFR<3).

15 REFERENCES

1. Annals of the ICRP. Publication 53. Radiation dose to patients from radiopharmaceuticals. New

York: Pergamon Press, 1988.

- Demer, L.L.K.L.Gould, R.A.Goldstein, R.L.Kirkeeide, N.A.Mullani, R.W. Smalling, A.Nishikawa, and M.E.Merhige. Assessment of coronary artery disease severity by PET: Comparison with quantitative arteriography in 193 patients. *Circulation* 1989; 79: 825-35.

16 HOW SUPPLIED/STORAGE AND HANDLING

Ammonia N 13 Injection is packaged in 30 mL multiple dose glass vial containing between 1.11 GBq to 11.1 GBq (30 mCi to 300 mCi) of [¹³N] ammonia, at the end of synthesis (EOS) reference time, in 0.9% sodium chloride injection solution in approximately 7 mL volume. The recommended dose of radioactivity (10 mCi – 20 mCi) is associated with a theoretical mass dose of 0.5 picomoles – 1.0 picomoles (8.47 picograms – 16.94 picograms) of Ammonia.

Storage

Store at 25°C (77°F); excursions permitted to 15°C – 30°C (59°F – 86°F). Use the solution within 30 minutes of the End of Synthesis (EOS) calibration.

17 PATIENT COUNSELING INFORMATION

17.1 Pre-study Hydration

Instruct patients to drink plenty of water or other fluids (as tolerated) in the 4 hours before their PET study.

17.2 Post-study Voiding

Instruct patients to void after completion of each image acquisition session and as often as possible for one hour after the PET scan ends.

17.3 Post-study Breastfeeding Avoidance

Instruct nursing patients to substitute stored breast milk or infant formula for breast milk for 2 hours after administration of Ammonia N 13 Injection.

Manufactured and distributed by:


PETNET Solutions, Inc.

810 Innovation Drive

Knoxville, TN 37932

Revised: 1/2016

Drug Product Label

<h2 style="text-align: center;">Ammonia N 13 Injection</h2> <p style="text-align: center;">3.75 – 37.5 mCi/mL at End of Synthesis (EOS) Diagnostic - For Intravenous Use Only Sterile, Non-pyrogenic Expires 60 minutes after EOS</p> <p>Batch #: _____</p> <p>EOS Date: _____ EOS Time: _____</p> <p>Activity @ EOS: _____ mCi</p> <p>Concentration: _____ mCi/mL</p> <p>Volume: _____ mL</p> <p>Exp. Date: _____ Exp. Time: _____</p>	NDC# 40028-513-30 Each mL contains 0.138 GBq to 1.387 GBq (3.75 mCi to 37.5 mCi) of no carrier added Ammonia N13 at EOS in 0.9% Sodium Chloride Injection.	30 mL Multiple-Dose Vial Store at 25°C (77°F); excursions permitted to 15-30°C (59-86°F) [see USP controlled room temperature]. Store upright in shielded container. Aseptically withdraw and handle doses.
	Do not use if cloudy or if it contains particulate matter. Calculate correct dosage from date and time of calibration (EOS). CAUTION: RADIOACTIVE MATERIAL  RX ONLY Manufactured by PETNET Solutions, Inc. Knoxville, TN 37932 ¹³ N Half-life = 9.96 min PN0002572	

<h3>AMMONIA N 13</h3> <p>ammonia n-13 injection</p>				
<h4>Product Information</h4>				
Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:40028-513	
Route of Administration	INTRAVENOUS	DEA Schedule		
<h4>Active Ingredient/Active Moiety</h4>				
	Ingredient Name	Basis of Strength	Strength	
	AMMONIA N-13 (UNII: 9OQO0E343Z) (AMMONIA N-13 - UNII:9OQO0E343Z)	AMMONIA N-13	37.5 mCi in 1 mL	
<h4>Inactive Ingredients</h4>				
	Ingredient Name	Strength		
	SODIUM CHLORIDE (UNII: 451W47IQ8X)	9 mg in 1 mL		
<h4>Packaging</h4>				
#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:40028-513-30	30 mL in 1 VIAL, GLASS; Type 0: Not a Combination Product		
<h4>Marketing Information</h4>				
Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date	
ANDA	ANDA204510	08/23/2007		

Labeler - PETNET Solutions, Inc. (015223951)

Establishment

Name	Address	ID/FEI	Business Operations
P.E.T.NET HOUSTON, LLC		621380547	POSITRON EMISSION TOMOGRAPHY DRUG PRODUCTION(40028-513)

Establishment

Name	Address	ID/FEI	Business Operations
PETNET INDIANA LLC		827624235	POSITRON EMISSION TOMOGRAPHY DRUG PRODUCTION(40028-513)

Establishment

Name	Address	ID/FEI	Business Operations
PETNET SOLUTIONS CLEVELAND, LLC		833282580	POSITRON EMISSION TOMOGRAPHY DRUG PRODUCTION(40028-513)

Establishment

Name	Address	ID/FEI	Business Operations
PETNET SOLUTIONS, INC.		961592982	POSITRON EMISSION TOMOGRAPHY DRUG PRODUCTION(40028-513)

Establishment

Name	Address	ID/FEI	Business Operations
PETNET SOLUTIONS, INC.		968897954	POSITRON EMISSION TOMOGRAPHY DRUG PRODUCTION(40028-513)

Establishment

Name	Address	ID/FEI	Business Operations
PETNET SOLUTIONS, INC.		961593220	POSITRON EMISSION TOMOGRAPHY DRUG PRODUCTION(40028-513)

Establishment

Name	Address	ID/FEI	Business Operations
PETNET SOLUTIONS, INC.		961597213	POSITRON EMISSION TOMOGRAPHY DRUG PRODUCTION(40028-513)

Establishment

Name	Address	ID/FEI	Business Operations
PETNET SOLUTIONS, INC.		134146484	POSITRON EMISSION TOMOGRAPHY DRUG PRODUCTION(40028-513)

Establishment

Name	Address	ID/FEI	Business Operations
PETNET SOLUTIONS, INC.		799246256	POSITRON EMISSION TOMOGRAPHY DRUG PRODUCTION(40028-513)

Establishment

Name	Address	ID/FEI	Business Operations
PETNET SOLUTIONS, INC.		103781071	POSITRON EMISSION TOMOGRAPHY DRUG PRODUCTION(40028-513)

Establishment

Name	Address	ID/FEI	Business Operations
PETNET SOLUTIONS, INC.		796129646	POSITRON EMISSION TOMOGRAPHY DRUG PRODUCTION(40028-513)

Establishment

Name	Address	ID/FEI	Business Operations
PETNET SOLUTIONS, INC.		111110727	POSITRON EMISSION TOMOGRAPHY DRUG PRODUCTION(40028-513)

Establishment			
Name	Address	ID/FEI	Business Operations
PETNET SOLUTIONS, INC.		101387665	POSITRON EMISSION TOMOGRAPHY DRUG PRODUCTION(40028-513)

Establishment			
Name	Address	ID/FEI	Business Operations
PETNET SOLUTIONS, INC.		079262099	POSITRON EMISSION TOMOGRAPHY DRUG PRODUCTION(40028-513)

Establishment			
Name	Address	ID/FEI	Business Operations
PETNET SOLUTIONS, INC.		961593337	POSITRON EMISSION TOMOGRAPHY DRUG PRODUCTION(40028-513)

Establishment			
Name	Address	ID/FEI	Business Operations
PETNET SOLUTIONS, INC.		965557486	POSITRON EMISSION TOMOGRAPHY DRUG PRODUCTION(40028-513)

Establishment			
Name	Address	ID/FEI	Business Operations
PETNET SOLUTIONS, INC.		843129326	POSITRON EMISSION TOMOGRAPHY DRUG PRODUCTION(40028-513)

Establishment			
Name	Address	ID/FEI	Business Operations
PETNET SOLUTIONS, INC.		961593386	POSITRON EMISSION TOMOGRAPHY DRUG PRODUCTION(40028-513)

Establishment			
Name	Address	ID/FEI	Business Operations
PETNET SOLUTIONS, INC.		078575242	POSITRON EMISSION TOMOGRAPHY DRUG PRODUCTION(40028-513)