Preparation of Tc-99m-TRODAT-1
Place one lyophilized TRODAT-1 kit vial in a suitable lead-shielding container.
Using a 5 mL syringe, inject into the shielded vial 5 mL of Sodium Pertechnetate Tc-99m solution.
Withdraw 5 mL of gas from the space above the solution to maintain atmospheric pressure within the vial.
Autoclave the shielded vial at 121°C for 30 min.
After cooling to room temperature, the Tc-99m-TRODAT-1 formed is suitable for intravenous injection.

Dosage and Administration
The recommended dose range for I.V. administration of Tc-99m-TRODAT-1 in a single dose to be employed in the average patient (70 kg) dose is 814–1036 MBq (22–28 mCi).
SPECT imaging should be performed after 3–4 hours post-administration.

Diagnosis
The differentiation between a normal and abnormal distribution is primarily based on shape which reflects differences of uptake intensity.

References:
1. PET AND SPECT OF DOPAMINE TRANSPORTER • Varrone and Halldin
4. SPECT Imaging of Dopamine Transporters With 99mTc-TRODAT-1 in Major Depression and Parkinson’s Disease The Journal of Neuropsychiatry and Clinical Neurosciences 2011; 23:63–67