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TCK 7

KIT FOR THE PREPARATION OF 99mTc-DTPA

(DIAGNOSTIC-FOR INTRAVENOUS USE)

The kit for the preparation of ^{99m}Tc-DTPA (Diethylene Triamine Penta Acetic acid) is a single component kit. On reconstituting the kit, as per specified recipe, ^{99m}Tc-DTPA solution formed is sterile, pyrogen free and suitable for i.v. administration.

^{99m}Tc-DTPA is excreted by glomerular filtration and the whole body retention is <5% at 24 h p.i.

- 99mTc-DTPA is used as renal imaging agent for
 - Quantitative evaluation of renal functions (vascular, secretion, excretion) of individual kidneys.
 - Estimation of glomerular filtration rate (GFR).
 - Detection and quantification of urinary tract obstruction in obstructive uropathy.
 - Combined with diuretic (DTPA + Lasix) to distinguish dilated collecting system from functional obstruction.
 - Along with ACE inhibitor (Captopril) for early detection of renal artery stenosis.
 - Quantitative functional assessment in immediate post renal transplant and its follow up.
- ☐ In neurology, 99mTc-DTPA is used for
 - Delineation of intracranial lesions with excessive vascularity or altered blood brain barrier.

DESCRIPTION OF THE KIT

Each kit consists of a single vial.

Each vial contains 35mg of DTPA and 2mg of stannous chloride dihydrate (SnCl₂·2H₂O) in freeze-dried form.



Radiopharmaceutical laboratory, BRIT, Vashi, Navi Mumbai.





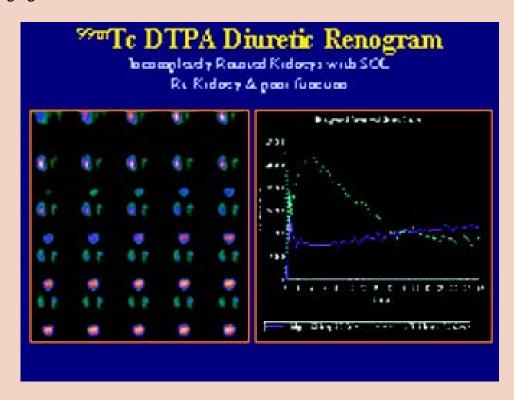
99mTc-DTPA Formulation*

- 1. Allow the kit vial to attain ambient tempeature.
- 2. Add 2-3ml of sterile sodium pertechnetate ($Na^{99m}TcO_4$) in 0.9% sodium chloride solution containing the required activity of ^{99m}Tc and mix well.
- 3. Keep the vial in boiling water bath for 5 min (alternately at room temperature for about 15 min).
- 4. Remove the vial from water bath and allow it to cool for 10 min.
- 5. The preparation is now ready for use.

(*For actual formulation, follow Product Recipe)

DOSAGE AND ADMINISTRATION

The suggested dose range per patient for i.v. administration of ^{99m}Tc-DTPA is 10-15 mCi (370-555 MBq) for renal imaging and 10-20 mCi (370-740 MBq) for brain imaging.





For placing the orders and further details please contact Customer Support Services Cell (CSSC)

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