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Preparation and labeling of HMPAO kit in Iran

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Abstract:

In recent years, several radiopharmaceuticals have been developed for imaging regional cerebral blood flow (rCBF) such as ⁷⁵Se labelled PIPSE and MOSE, ²⁰¹Tl labelled DDC and ^{99m}Tc labelled HMPAO. HMPAO with two asymmetric carbon atoms (At the 3 and 9 positions), produces d,1 and meso isomers, only one of which is retained in the brain. Rapid intracellular conversion of ^{99m}Tc-d,1-HMPAO to hydrophilic ^{99m}Tc species causes the complex becoming fixed in the brain. In this report we synthesized and characterized d,1-HMPAO. Kit formulations have been done and biological characteristics of ^{99m}Tc-d,1-HMPAO have been examined.

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