

RADIOLABELING OF ETHYL MORPHINE WITH ^{131}I AND BIODISTRIBUTION IN RATS

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In this study, the tissue distribution of labeled codeine with I-131 in rat was investigated. Ethyl morphine was synthesized from morphine which was extracted from dry capsules of the opium poppy (*Papaver somniferum*), were purified by HPLC (High Performance Liquid Chromatography) and characterized with NMR (Nuclear Magnetic Resonance) and IR (Infrared) spectroscopy. The concentration of this radiolabelled opiate alkaloid seems to be distributed uniformly in the midbrain and hypothalamus than the other branch of brain and was higher uptake stomach and urinary bladder and small intestine than the other tissues.