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RADIOIODINATION, CHROMATOGRAPHIC SEPARATION AND BIOLOGICAL EVALUATION OF CIMENTIDINE AS A NEW HIGHLY SELECTIVE RADIOTRACER FOR PEPTIC ULCER DISORDER DETECTION

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Cimentidine has been labeled using [125I] with chloramine-T (Ch-T) or N-Bromosuccinimide (NBS) as different oxidizing agents. Factors such as amount of substrate, reaction temperature, pH, reaction time and, different oxidizing agents have been systematically studied to optimize the iodination. The radiochemical conversion was calculated on thin-layer chromatography (TLC), paper electrophoresis (PC), gel filtration (GF), and then completely purified by high performance liquid chromatography (HPLC). An optimum conversion of 98% was achieved. Biodistribution studies indicate the suitability of [125I]iodocimetidine as a novel tracer to image stomach ulcer. current trends, innovations and methodology in 3D printing. It came up with a theme "Innovations in Medicine through 3D Printing".

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