SUMMARY:

Drug binding to plasma proteins is one of the primary pharmacological parameters. The binding rate has significant effects on drug distribution and drug elimination. In vitro investigation of plasma protein binding helps us foresee their destiny after its administration to a living organism. This dissertation focused on studying plasma protein binding of DOTA-NOC marking by 90 Y and 111 In in term of interspecies comparison. The binding was determined by methods of equilibrium dialysis at 37°C. Results showed binding of 90 Y-DOTA-NOC increases respectively: human < rabbit < bovine < rat plasm. Binding of 111 In-DOTA-NOC increases respectively: pork < human < rat < rabbit plasm.

KEYWORDS:

protein binding, DOTA-NOC, ¹¹¹In, ⁹⁰Y, interspecies comparison