

Chemical-toxicological research of certain non-steroidal antiinflammatory agents

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Keywords: non-steroidal anti-inflammatory agents, isolation, identification, quantification.

Abstract

Optimal conditions were defined for isolating nimisulid, meloxicam, ibuprofen and codeine (preparation of Nurofen Plus), Propyphenazone, codeine, and caffeine paratsitamol (kaffetin preparation) from biological fluids and medicines. Test substances were identified using color and sediment reaction by IR, UV spectroscopy, thin-layer and gas chromatography with mass selective detector and high performance liquid chromatography. Quantitative determination in extracts from biological fluids was performed by HPLC chromatography-densitometry and UV spectroscopy. The results of the three methods are similar and reproducible.