

HPLC determination of nimesulide in tablets by electrochemical detection

Álvarez-Lueje,

Vásquez,

Núñez-Vergara,

Squilla,

An analytical chromatographic method for the determination of nimesulide in pharmaceutical forms has been developed. The method is based on high performance liquid chromatographic (HPLC) and electrochemical detection. Chromatography was performed on a ?Bondapak/?Porasil C-18 column (150 min x 3.9 mm I.D.). The mobile phase consisted of pH 3 buffer phosphate-methanol (40:60, v/v) at a flow-rate of 1 mL/min. The analytes were detected by electrochemical detection in the pulse mode at 1200 mV. For comparative purposes both an HPLC with diode array detector and a spectrophotometric method were employed. The results of the recovery study (mean 101.07, rsd 1.44) show that HPLC with an electrochemical detection method is adequately precise and accurate and can be recommended for the determination of nimesulide in tablets.