

The invention relates to the field of analytical chemistry of pesticides. The method is in gas-chromatographic determination of residuals of active substance of herbicide stomp – penoxaline with detector for electron recombination (DPR) on fixed phase SE-30 or XE-60 after extraction of penoxaline from the sample with solution of sulphuric acid. At the step of sample preparation for analysis, penoxaline is extracted twice with 18-22% solution of sulphuric acid during 30-60 minutes, with neutralization of acid extractions with NaOH solution to pH=7, with re-extraction with hexane and evaporation of hexane extractions to volume 1 ml.