

Abstract

The occurrence of caffeine residues was investigated in superficial waters. The aim of this study was to obtain a first overview about contamination of waters from Mondego River and from source fountains near Coimbra city (Portugal) with caffeine. The samples were preconcentrated by SPE (Solid Phase Extraction) with Oasis polymeric column procedure and analysed by Liquid Chromatography (LC) with UV detector (280nm). Mobile phase consist of 190 ml acetic acid glacial 100% and 810 ml of LC water (adjusted to pH 3.0 with acetate sodium)

A total of twelve samples were collected in different site of Mondego River and from fountains near Coimbra city during three month's periods.

A total of twelve samples of caffeine were analysed under the conditions described and none of them showed to be contaminated with caffeine.