

ABSTRACT

A procedure is described for the detection of forensically relevant benzodiazepines from the hairs of suspected abusers of benzodiazepines from Gujranwala division. The procedure involves the collection of hair samples by cutting hair from posterior vertex region of scalp, decontamination of collected samples by washing with warm water (5 min) and then twice washing with acetone (3 min), cutting of hair into very small fragments (about 2cm), pulverization in a ball mill, extraction of drugs from pulverized hair by two methods (Acidic Methanolic Extraction and Extraction with Soerensens Buffer), incubation of 300mg pulverized hair with Acid: Methanol (50:1) or incubation with Soerensens Buffer, liquid-liquid extraction with Chloroform, and then analysis of extracted samples by Gas Chromatography-Mass Spectrometry (GC-MS).