

RVC-application A-1003

Catchwords: toxicology, forensic medicine, narcotics, blood, serum, cannabinoids, ethyl acetate, acetone, 1 ml, 10 ml-centrifuge tubes

Drying of extracts after constant phases-extractions within the determination of cannabinoids in the blood

Application:

Drying of the elution-fraction after the SEP-extraction of cannabinoids of the blood. The eluate of the solid phase-extraction, consisting of 1 ml ethyl acetate / acetone 60/40 was used for the drying.
The dried extract is used for the derivatization after the drying.

Method-development by the institute of forensic medicine, university hospital Hamburg-Eppendorf

Specification:

Model:	RVC 2-25 CDplus
Vacuum pump:	RC 6 vacuum chemistry-hybrid pump
Liquid phase:	Ethyl acetate / acetone 60:40
Boiling range of the accumulation phase:	60 - 70 °C
Type of tube:	10 ml – pointed centrifuge tube
Starting volume of the sample:	1ml
Final volume of the sample:	till entire dryness
Number of test tube per run:	24
Temperature:	50 °C
Vacuum:	
Time:	30 min

Result and notes:

The drying with the RVC proceeds dependably, fast and repeatable. The dependability of the method was tested in detail in replications with the method of the azote-blowing.

There was a report about the comparative tests in the "GIT-Separation Spezial" issue June 2010, page 11. The paper is available as a pdf-file, at the Martin Christ Gefriertrocknungsanlagen GmbH