

RVC-application A-1002

Catchwords: toxicology, forensic medicine, serum, narcotics, amphetamines, cyclohexane, isopropanol, 1 ml

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

Application:

Drying of the elution-fraction after fluent/fluent-extraction of amphetamines in the blood. One uses for the ring the eluate of the solid phase-extraction, consisting out of 3 ml cyclohexane/isopropanol (HCl) 30:1
The dried extract is used for 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:	cyclohexane/isopropanol (HCl) 30:1
Boiling range of the accumulation phase:	70 - 80 °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:	2 mbar
Time:	25 min

Result and notes:

The drying with the RVC proceeds dependably, fast and repeatable without volatility of the analytics. 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