

RVC-application A-1007

Catchwords: pharmaceuticals, antibiotics, analgesics, eluate SPE, sample preparation LC-MS, methanol, acetonitrile, Eppendorf-tubes, 1ml

Different pharmaceutical agents - samples preparation for the LC-MS-analysis

Application:

Evaporation of organic SPE-eluates till entire dryness of different pharmaceutical agents, e.g. antibiotics, analgesics, deka-peptide etc.

The samples are loaded in the LC_MS-analytics, after reuptake in 50 – 100 µl liquid phase.

Specification:

Model:	RVC 2-33
Vacuum pump:	
Liquid phase:	
Boiling range of the accumulation phase:	Methanol (cross point 65 °C) or acetonitrile (82 °C)
Type of tube:	Eppendorf 1,8 ml
Starting volume of the sample:	1 ml
Final volume of the sample:	till entire dryness
Number of test tube per run:	
Temperature:	60 °C
Vacuum:	
Time:	1 h (sometimes ready after 30 – 45 min)

Result and notes:

There are no stability problems at al. The substances don't volatilize. This is checked in each case in the validation phase. There is no danger to work with the samples with 60 °C because of the controlled temperature resistance. Neither is there any danger, with the routinely treatment and the pre-programmed time (1 h), even if the entire dryness is already reached earlier.

The great advantage is that a lot of samples can be accumulated together. A carry-over doesn't take place between the samples during the parallel evaporation.

The method is used routinely for a big number of substances.