

Evaporation Performance Data Using Microcentrifuge Tubes

TurboVap LV Concentration Workstation

Concentrates 1 to 50 samples, unattended, up to ten times faster than centrifugal evaporators while also providing excellent recoveries.

Convenient

- Allows you to easily load samples and add samples once operation has begun
- Requires no tube balancing
- Allows you to easily swap racks with equal capacity for different sample containers -no need for tools to switch rotors
- Requires no additional equipment such as vacuum pumps and vacuum traps



Without these features, a concentrator can be cumbersome and difficult to use, as is the case with concentrators using vacuum centrifuge techniques.

Flexible

Flexibility is just as important when the tube size varies depending on the assay being performed, or when samples need to be transferred to and from other automated equipment.

- Uses a 50-position rack designed for compatibility with other laboratory stations such as the Prelude Workstation the AutoTrace SPE Workstation and RapidTrace SPE Workstation
- Operates with twelve different racks (see list on back) for a variety of different tube sizes allowing you the flexibility of performing multiple assays

Biological Samples in Microcentrifuge Tubes

Caliper Life Sciences now offers racks for 1.5 to 2.0 mL microcentrifuge tubes with either a flip or screw cap. The rack design incorporates a special plate that secures these small containers in place while also acting as a guide for water bath height. Microcentrifuge tubes are typically used in labs performing isolation and purification of compounds from biological samples. Examples of these labs and compounds are provided in the tables below.

LABORATORIES	COMPOUNDS
Biotechnology	Proteins
BioResearch	Peptides
Drug Discovery	Oligonucleotides
Toxicology	Prostaglandins
Forensic	Lipids
Drug Metabolism/ Pharmacokinetics	Vitamins
	DNA Synthesis
	Drugs of Abuse

Solvent	Time (hh:mm)	
	37 °C	44 °C
Methanol	00:15	00:13
Methanol: Water (1:1)	00:59**	00:51
Methanol: Water (1:9)	01:30	01:09
Acetonitrile	00:14	00:12
Acetonitrile: Water (1:1)	01:20	00:54
Isopropanol	00:19	00:13
Isopropanol: Water (1:1)	01:17	00:54
10mM Phosphate Buffer	02:03	01:40

Conditions: 1mL at 5 psi

** Time is decreased by increasing pressure as the sample evaporates down in the tube. For example, 1mL Methanol:Water (1:1) at 37°C can be concentrated 30 minutes faster when pressure is increased periodically during the sample run.

Part No.	Description
103199	TurboVap LV, 220V
103198	TurboVap LV, 110V
Racks not included, select from below:	
48928	1.5-2.0 mL Microcentrifuge Flip Cap Tube Rack
48929	1.5-2.0 mL Microcentrifuge Screw Cap Tube Rack
48950	10x75 mm Tube Rack
44577	12x75 mm Tube Rack
45286	13x100 mm Tube Rack
44139	16x100 mm Tube Rack
44283	Prelude compatible 16x100 mm Tube Rack
45269	16x125 mm Tube Rack
44282	20x150 mm Tube Rack
47820	10 mL Centrifuge Tube Rack
44880	15 mL Centrifuge Tube Rack
47818	15 mL Volumetric AutoTrace Tube Rack
59546	GC Autosample Vial Rack

Evaporation Rate Data

This chart provides evaporation rate data from the TurboVap LV Concentrator using microcentrifuge tubes on aqueous and organic solvents commonly used with biological samples.



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