

EluVac™

**Vacuum Manifold
for Solid Phase Extraction (SPE)**



SOLUTIONS BY **LC** *Tech*

Vacuum Manifold for Solid Phase Extraction (SPE)



The Basic EluVac™ System is **exceptionally comprehensive** and includes column valves, regulation of flow rate for each column, vacuum regulation unit, beaker and central drain tube.

Comprehensive Basic System

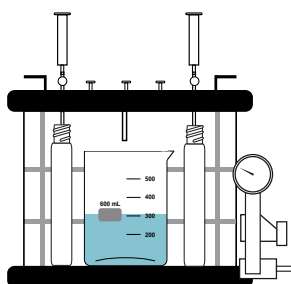


The manifold provides **two possibilities to collect the waste fluid.**

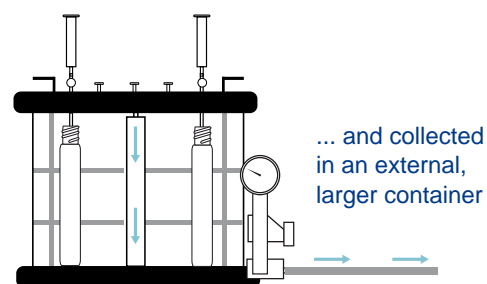
Both are included in the Basic System.

The glass cylinder remains clean in any case.

1 The waste fluid flows into a 600 mL beaker



2 The waste fluid is drained off through a central drain tube ...



Accelerate Clean-Up - Enhance Throughput

The **EluVac™ SPE vacuum manifold** is designed for enriching and isolating analytes by solid phase extraction (SPE).

It allows simultaneous handling of up to 20 samples with controlled, reproducible flow rate.

The EluVac™ can be used universally: for the clean-up of food, feed and environmental samples and in the fields of pharmacy, medicine, biotechnology or materials research.

All common SPE columns can be used with the manifold.

For very frequent applications EluVac™ sets are available containing all necessary components:

- ✓ for the handling of large volume samples, e.g. for the analysis of water, milk, ... **IIIIIIII▶ page 4**
- ✓ for the clean-up with immunoaffinity columns for the analysis of mycotoxins **IIIIIIII▶ page 5**
- ✓ for the clean-up with LCTech Florisil® columns for the determination of the Hydrocarbon Oil Index according to EN ISO 9377-2 (H53 method) **IIIIIIII▶ page 5**

The Advantages of EluVac™

- ✓ **Enhanced sample throughput**
- ✓ **Consistent clean-up with comparable results:**
The vacuum can be regulated for the whole system and using the provided column valves for each column
- ✓ **Flexibly adaptable to many applications** with several racks for a variety of vials (from 1 mL to 100 mL) to collect the eluates
- ✓ **Comfortable handling**, e.g. switch from "Inject" to "Load" by simply moving the lid
- ✓ **Handling of large volume samples** (up to several liters)
- ✓ **Handling of large volume eluates** (up to 100 mL per sample)
- ✓ Also suitable for **rotary evaporator bottles** (up to 100 mL)

It is Easy to Use the EluVac™



- 1** Choose method of waste drain: beaker or central drain tube
- 2** Put sample racks and vials into the glass cylinder
- 3** Close the system: set up inner and upper lid
- 4** Set up columns (and holder for sample reservoirs, if needed)
- 5** Apply vacuum to glass cylinder and regulate it
- 6** To collect the eluate, slightly lift upper lid and switch from „Inject“ to „Load“

For Samples of Up to 100 mL

Samples volumes of up to 100 mL can be directly applied to the columns and cleaned up without pipetting steps.



For this purpose LCTech provides sample reservoirs, that are connected to the column. A holder for the columns and sample reservoirs are put onto the upper lid.

Ordering Information	Part N°
Sample reservoirs for 3 mL standard SPE columns, 100 mL, made of glass, reusable, dishwasher proof, with screw cap and PTFE seals, 2 pieces/pack	10896
Sample reservoirs, like described above, but with other screw cap for LCTech Elufix™ columns	9370-1
Holder for sample reservoirs, 10 positions	11098
Holder for sample reservoirs, 6 positions	11560

Racks for Eluate Collection

To collect the eluates several racks are available. They are easily exchanged and offer flexibility.

The eluates are collected in a variety of collection vessels.



Rack for eluate collection in 60 mL vials, up to 10 positions
Part N° 11118



Rack for eluate collection in 4 mL vials, up to 20 positions
Part N° 11105

Insert for taking up 1 mL vials
Part N° 112820



Rack for eluate collection in 100 mL Gläsern, up to 10 positions
Part N° 12767



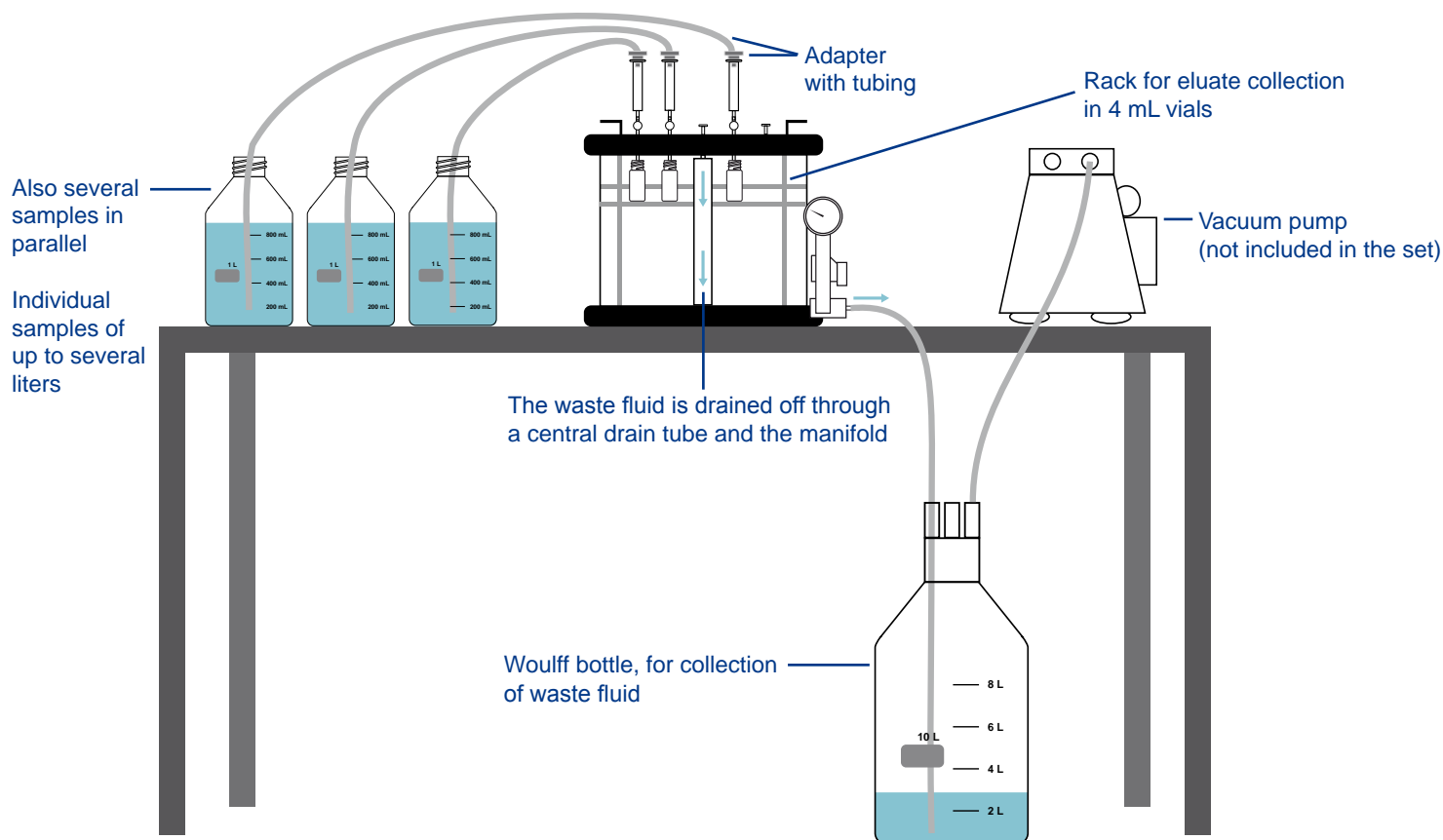
Rack for eluate collection in rotary evaporator bottles, NS 29/32 (up to 100 mL), up to 6 positions
Part N° 11112

Do you want to work with another vessel type or size?

We are able to produce new racks according to your requirements - simply contact us.



This set is especially suitable for water laboratories and for the clean-up of milk, e.g. for the detection of Aflatoxin M1.



EluVac™ Vacuum Manifold Set for large volume samples, e.g. water, milk, consists of		11739	
EluVac™ Basic System	11048	10 x SPE column adapter, suitable for all 1, 3, 6 and 15 mL columns, with suction tubing (1.5 m)	11734
Rack for eluate collection for 4 mL vials, 20 positions	11105	Woulff bottle, 10 L, plastic-coated, with tubing (2 m)	F10000B

Further recommended accessories: 4 mL vials (P/N V0004, 100 pieces/pack), vacuum pump



These **vacuum pumps** are the modern alternative to water jet pumps for evacuation.

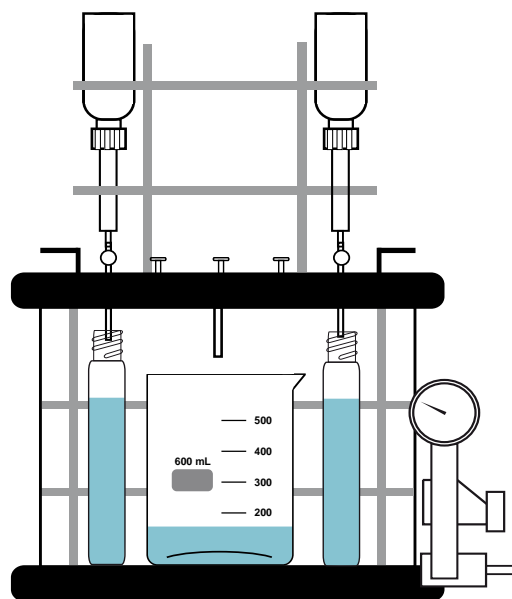
- ✓ Continuous, oil-free pumping of gases
- ✓ Chemically resistant materials
- ✓ Ready-to-operate, incl. 2m PVC hose
- ✓ Very low noise level
- ✓ Compact design
- ✓ Long lifetime

Set for the Hydrocarbon Oil Index

One of the important and common tasks in the field of water analysis is the determination of the Hydrocarbon Oil Index according to EN ISO 9377-2 (H53) in surface, industrial and process water.

Using the EluVac™ sample preparation can be parallelized and thus accelerated.

EluVac™ Vacuum Manifold Set for H53 method, consists of	11146
EluVac™ Basic System	11048
Rack for eluate collection in 60 mL vials	11118
Holder for sample reservoirs	11098




Elufix™, Glass columns with Florisil®
More information at
www.Lctech.de/e/Elufix

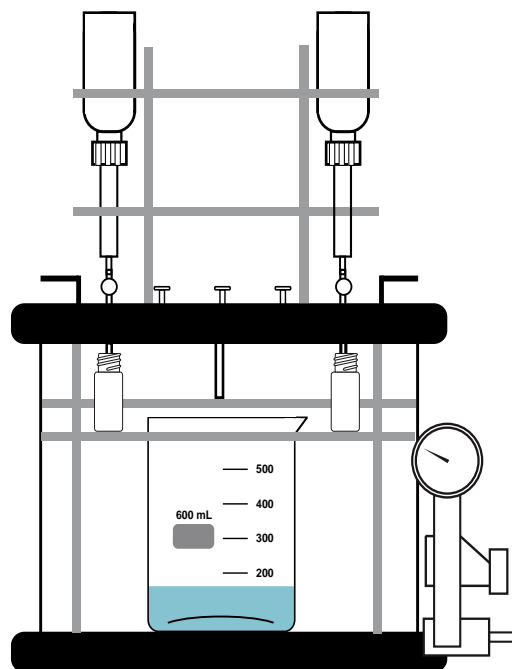
Sets for Mycotoxin Analysis

Mycotoxins are metabolites that are produced by molds, e.g. during inappropriate storage. They pose serious health risk to the consumer. That is why reliable analysis is necessary.

The sets perfectly fit sample preparation for this kind of analysis. The samples are eluted via immunoaffinity columns into 4 mL or GC vials.

For larger sample volumes special reservoirs are available.  page 4

EluVac™ Vacuum Manifold Set for mycotoxin analysis, consists of	12415	12856
EluVac™ Basic System	11048	11048
Rack for eluate collection in 4 mL vials, 20 positions	11105	11105
Holder for sample reservoirs	11098	11098
Insert for taking up 1 mL vials		12820



LCTech mycotoxin columns
More information at
www.Lctech.de

Ordering Information



BASIC SYSTEM		Part N°
EluVac™ Vacuum Manifold (W x D x H: 30 x 30 x 21 cm) incl. vacuum regulation unit, beaker / drain tube with tubing, 20 column valves, 20 port sealing plugs		11048
COMPLETE SETS (for common applications, without vacuum pump or consumables)		
for large sample volumes (details see page 4)		11739
for the determination of the hydrocarbon oil index (details see page 5)		11146
for the analysis of mycotoxins (details see page 5)		12415, 12856
for pear shaped rotary evaporator bottles, NS 29/32 (up to 100 mL)		11147
RACKS FOR ELUATE COLLECTION		
for 4 mL vials (V0004), 20 positions		11105
for 60 mL vials (F060), 10 positions		11118
for 100 mL vials (F100), 10 positions		12767
for 100 mL rotary evaporator bottles, NS 29/32 (11106), 6 positions		11112
HOLDER FOR SAMPLE RESERVOIRS		
10 positions		11098
6 positions, only for rack for rotary evaporator bottles (11112)		11560
ACCESSORIES		
Sample reservoir (2 pieces/pack) for 100 mL samples, made of glass, reusable and dishwasher proof, suitable for LCTech Florisil® columns, incl. screw cap and PTFE seals		9370-1
Sample reservoir (2 pieces/pack) for 100 mL samples, made of glass, reusable and dishwasher proof, suitable for LCTech immunoaffinity columns, incl. screw cap and PTFE seals		10896
Seals for sample reservoir (9370-1), PTFE (10 pieces/pack)		9373-2
Seals for sample reservoir (10896), PTFE (10 pieces/pack)		10909
Woulff bottle, 10 L, incl. special screw cap and 2 m tubing		F10000B
Adapter for SPE columns, for sucking larger samples volumes of an external container, suitable for all 1, 3, 6 or 15 mL columns, incl. 1.5 m tubing		11734
Adapter from ELUFIX™ column to Luer connection (10 pieces/pack)		11043
VACUUM PUMPS		
ME 2C, one stage, "Chemistry", incl. cable, plug and instructions 230 V, 50-60 Hz		11125
100 - 120 / 200 - 230 V, 50-60 Hz		11126
ME 2, one stage, „Aluminium“, incl. cable, plug and instructions 230 V, 50-60 Hz		11123
100 - 120 / 200 - 230 V, 50-60 Hz		11124
SAMPLE VIALS OF GLASS		
4 mL vials, 100 pieces / pack		V0004
60 mL vials, 100 pieces / pack		F060
100 mL vials, 2 pieces / pack		F100-D
100 mL rotary evaporator bottles, NS 29/32, pear shaped, 1 piece		11106

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P/N 12738, as of June 2011

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