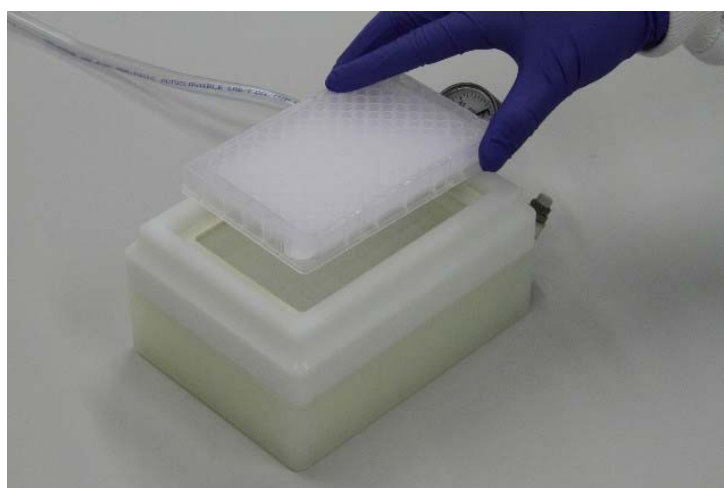




Product Guide for Ludger-Velocity SPE Vacuum Manifold System



Ludger Document # Ludger-Velocity-Guide-v1.0

Ludger Ltd

Culham Science Centre
Oxford OX14 3EB
United Kingdom

Tel: +44 1865 408 554

Fax: +44 870 163 4620

Email: info@ludger.com

www.ludger.com

Contents

	Page
Contents.....	2
Specifications for Ludger-Velocity SPE vacuum manifold system	3
Additional Reagents and Equipment Required	4
Introduction	4
Setting Up the Vacuum Manifold	4
1. Place vacuum manifold base, pump and vacuum trap on workbench.....	4
2. Place collection plate inside vacuum manifold	4
3. Place manifold lid over waste plate	4
A. For cartridge set up	5
4. Insert cartridge holder into manifold lid.....	5
5. Place the cartridges into the cartridge holder.....	5
6. Use plugs to seal extra holes	5
7. Remove cartridges following sample elution.	5
8. Place collection plate lid onto collection plate	5
B. For plate set up.....	5
4. Insert 96 well plate into manifold lid.....	5
5. Remove collection plate.....	5
6. Place collection plate lid onto collection plate	5
Warranties and Liabilities	6
Document Revision Number	6
Photo Guide.....	7

Specifications for Ludger-Velocity SPE vacuum manifold system

Application The Ludger-Velocity SPE vacuum manifold system is a 96 well microplate format system which enables analysts using Ludger-Velocity solid phase clean up systems to process up to 96 samples simultaneously. The system can be used with individual clean up **cartridges** or 96 well **plate** clean up devices.

Description The system comprises the following components:

		Cartridge	Plate
Vacuum Manifold (comprising a base and lid)	Cat # LC-VAC-MANIFOLD-KIT	•	•
Vacuum Trap	Cat # LC-VACUUM-TRAP-KIT	•	•
Collection Plate (pack of 5 x 96 well plates)	Cat # LP-COLLPLATE-96	•	•
Collection Plate Lid (pack of 5)	Cat # LP-COLLPLATE-2ML-LID-96	•	•
Cartridge Holder	Cat # LP-HOLDER-96	•	
Plugs (pack of 12 strips of 8 plugs)	Cat # LP-PLUG-96	•	
LudgerClean T1 cartridges	Cat # LC-T1-A6	•	
LudgerClean PBM plate	Cat # LC-PBM-96		•

Number of Samples 1-96

Storage: All components can be stored at room temperature.

Shipping: The product can be shipped at ambient temperature.

Handling: Ensure that any glass, plasticware or solvents used are free of glycosidases and environmental carbohydrates. Use powder-free gloves for all sample handling procedures and avoid contamination with environmental carbohydrate.

Safety: All processes involving hazardous reagents should be performed using appropriate personal safety protection - eyeglasses, chemically resistant gloves (e.g. nitrile), etc. - and where appropriate in a laboratory fume cupboard.

For research use only. Not for human or drug use.

Additional Reagents and Equipment Required

- Pump. We recommend the KNF Neuberger diaphragm pump Model 057501/045050.
- Waste plate (optional) e.g. you can use the base of a 96 pipette tip box to capture waste or use a 96-well collection plate.

Introduction

The Ludger-Velocity SPE vacuum manifold system is compatible with other components of the Ludger-Velocity range for sample preparation, such as LudgerClean™ T1 cartridges (for purification of glycans post-fluorophore labeling) or LudgerClean™ PBM plates (for clean up following exoglycosidase digestion).

Setting Up the Vacuum Manifold

The manifold can be set up for use with a 96-well plate or for individual cartridges. Please follow the step-by-step instructions for the set up you require. Please see the photo guide at the end of this document.

1. Place vacuum manifold base, pump and vacuum trap on workbench.

Attach vacuum manifold to vacuum trap, and vacuum trap to pump using the tubing provided with the vacuum trap.

2. Place collection plate inside vacuum manifold

3. Place manifold lid over waste plate

A. For cartridge set up

4. Insert cartridge holder into manifold lid

5. Place the cartridges into the cartridge holder

6. Use plugs to seal extra holes

Any number (between 1 and 96) of cartridges can be fitted into the holder. If less than 96, then use the plugs to cover the spare holes by pressing firmly to seal. This is now ready to use with the vacuum manifold system. Apply vacuum.

7. Remove cartridges following sample elution.

8. Place collection plate lid onto collection plate

B. For plate set up

4. Insert 96 well plate into manifold lid

Apply vacuum

5. Remove collection plate

6. Place collection plate lid onto collection plate

Warranties and Liabilities

Ludger warrants that the above product conforms to the attached analytical documents. Should the product fail for reasons other than through misuse Ludger will, at its option, replace free of charge or refund the purchase price. This warranty is exclusive and Ludger makes no other warranties, expressed or implied, including any implied conditions or warranties of merchantability or fitness for any particular purpose. Ludger shall not be liable for any incidental, consequential or contingent damages.

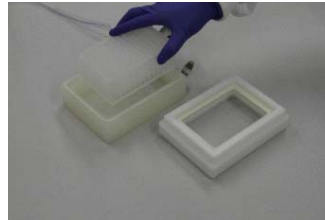
This product is intended for *in vitro* research only.

Document Revision Number

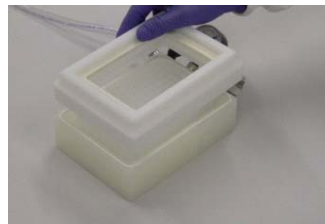
Document # Ludger-Velocity-Guide-v1.0



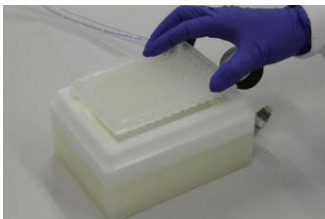
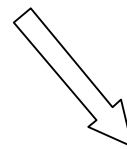
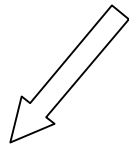
(1) unpack and assemble the vacuum manifold and trap. Attach using tubing to pump (not available from Ludger)



(2) Place collection plate inside vacuum manifold

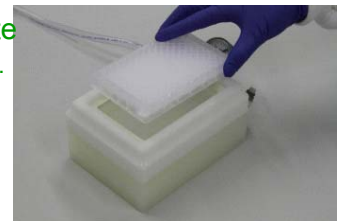


(3) Place manifold lid over collection plate

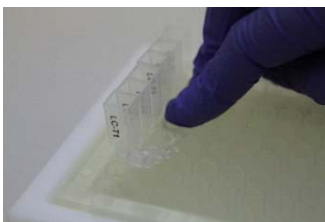
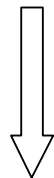


(A4) Insert cartridge holder

(B4) Insert 96 well plate into manifold lid.

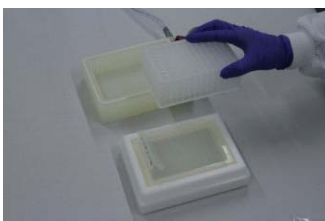


(A5) Place cartridges into the holes of the cartridge holder

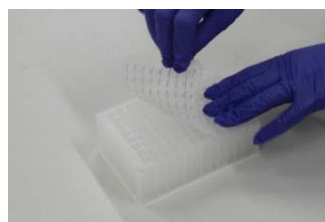
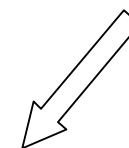
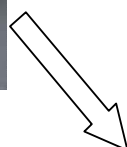


(A6) Use plugs to seal extra holes

(B5) After applying vacuum, remove collection plate



(A7) After applying vacuum, remove collection plate.



Place collection plate Lid onto collection plate