EVUTIP

Loading protocol for Evotip Pure



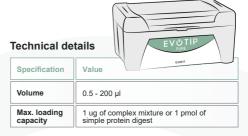
Evotips

Evotips are disposable, purification and loading trap columns.

Evotips fit most standard pipettes and commercial robotic systems.

Using Evotips results in simplified workflows that removes several sample handling steps and reduces injection cycle overheads.

Carry-over is minimized by eluting with a partial gradient in a very precise and reproducible volume that leaves impurities and high-molecular-weight contaminants behind.



Ordering information

Part number	Value
EV2011	Evotip Pure, 1 box (96 tips)
EV2013	Evotip Pure, 10 boxes (960 tips)
EV2015	Evotip Pure, 50 boxes (4800 tips)
EV2018	Evotip Pure, 100 boxes (9600 tips)

Required Material

- 1. Box of Evotips.
- 2. Mass Spec Grade 1-Propanol, alternatively 2-Propanol.
- Solvent A: Mass Spec Grade Water with 0.1% Formic Acid, JT Baker P/N: JT-9834-2 or equivalent.
- Solvent B: Mass Spec Grade Acetonitrile with 0.1% Formic Acid, JT Baker P/N: JT-9832-2 or equivalent.
- Multichannel pipette.
- Solvent containers for multichannel pipette, e.g. Dual Solution Reservoir HEA20281A from Heathrow Scientific <u>www.heathrowscientific.com/dual-solution-reservoir-i-hea20821a</u>.
- Single-well plate, e.g. 242811 from Thermo Scientific, www.thermofisher.com/order/catalog/product/242811.
 Do not use this plate with Acetonitrile.
- Evotip adaptor rack (EV1068).
- Gloves.
- Table centrifuge.
- 11. Fume hood.

Important info

- At all centrifugation steps use max acceleration and deacceleration.
- After each centrifugation step, empty the box for liquid.
- Please note that the following settings are guidelines, adjustment might be needed depending on the actual centrifuge.
- Centrifugation should be performed at room temperature.

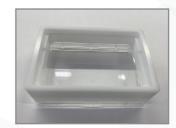
Wear safety glasses, lab coat and gloves and work in fume hood when following this procedure.

Prepare solvents and containers

 Pour Solvent A, Solvent B and Propanol into their respective solvent containers.

(The recommended dual purpose containers can either be used as a single reservoir or as 12 individual ones).



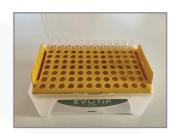


Rinse

- Transfer 20 µl Solvent B to all Evotips.
- Place the Evotips in the centrifuge with appropriate counter balance and centrifuge at 800 g for 60 seconds.



EMPTY THE BOX FOR FOR LIQUID
AFTER CENTRIFUGATION STEP





Condition

- Place the Evotip adaptor rack on top of the single-well plate with Propanol.
- Soak for a minimum of 10 seconds and then visually inspect that Evotips are pale white.



ENSURE THAT ALL EVOTIPS
ARE PALE WHITE AFTER SOAKING

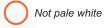


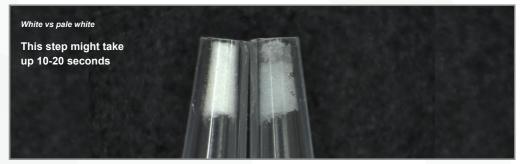


Let the Evotips soak until all are pale white



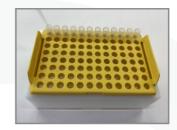






Equilibrate

 With the Evotips still in the adapter rack, transfer 20 μl Solvent A to each Evotip.



Place the Evotips in the centrifuge with appropriate counter balance and centrifuge at 800 g for 60 seconds.

IMPORTANT

EMPTY THE BOX FOR LIQUID AFTER CENTRIFUGATION STEP



Sample load

 Place the Evotips in the original tray and transfer the sample (20 µl) to each Evotip.

IMPORTANT

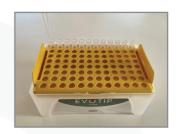
DO NOT PLACE THE EVOTIPS IN THE PROPANOL ADAPTOR AT THIS STAGE!

Solvent A can be added to the bottom of the Evotip box, to keep the Evotips wet during sample loading.

Place the Evotips in the centrifuge with counter balance and centrifuge at 800 g for 60 seconds.

IMPORTANT

EMPTY THE BOX FOR LIQUID
AFTER CENTRIFUGATION STEP





Wash

1. Transfer 20 µl Solvent A to each Evotip.



Place the Evotips in the centrifuge with appropriate counter balance and centrifuge at 800 g for 60 seconds.

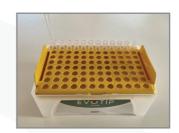
IMPORTANT

EMPTY THE BOX FOR LIQUID AFTER CENTRIFUGATION STEP



Preservation

- Transfer 100 µl Solvent A to each Evotip.
- Place the Evotips in the centrifuge with appropriate counter balance and centrifuge at 800 g for 10 seconds to keep Evotips wet.



Storage recommendation

 Add enough Solvent A to the bottom of the tray so the bottom of the Evotips are submerged and store at 4°C with lid on until analysis.



Quick guide

Evotip Pure (EV2011)



RINSE

Wash dry Evotips with 20 μ I Solvent B and centrifuge at 800 g for 60 s.



CONDITION

Soak in Propanol until all the Evotips are pale white.



EQUILIBRATE

Equilibrate soaked Evotips with 20 μ l Solvent A and centrifuge at 800 g for 60 s.



LOAD

Load samples on wet Evotips (20 μ l in Solvent A) and centrifuge at 800 g for 60 s.



WASH

Wash Evotips with 20 μ I Solvent A and centrifuge at 800 g for 60 s.



WET

Transfer 100 µl Solvent A and centrifuge Evotips at 800 g for 10 s to keep them wet.



NOTES

- Ensure Evotips are continously wet after soaking in Propanol.
- Transfer Evotips to Solvent A tray in loading step to avoid that they dry out.
- Prepare Evotips just prior to MS analysis, but for longer storage add Solvent A in the bottom of the box and store cold with lid on.
- 4. Empty the box for liquid after each centrifugation steps to ensure reproducible sample loading.