

GL-Tip™ SDB Instruction Manual

Thank you for purchasing GL-Tip™ SDB. GL-Tip SDB is a sample preparation tip column packed with styrene di vinyl benzene polymer designed for desalting and enriching peptide samples, particularly hydrophobic phosphopeptides. GL-Tip™ SDB is often used in combination with GL-Tip™ GC (available separately, P/N 7820-11201) to ensure that peptides with the widest range of polarity are captured in high yields.

1. Product Description

- Check for damage or missing parts.

Contents	
Part No. (Order No.)	7820-11200
GL-Tip SDB	96 tips
Instruction Manual	1

2. Product Handling

- Handle GL-Tips delicately; avoid dropping or tapping the tips, which may harm the column bed.
- Do not autoclave GL-Tips
- GL-Tips are designed for use with a centrifuge. Attempting to use GL-Tips with syringes, pipettes, or any air-forced solvent flow methods may result in reduced or irreproducible results.
- Actual maximum or minimum sample concentration and loading volume are sample-dependent, and can vary with different detergents or denaturants present in the sample. Therefore, sample loading conditions *optimum –for –your –particular –sample* must be determined empirically in your laboratory.
- Make sure to use the purest acetonitrile available. Even some HPLC-grade acetonitrile has been shown to contain both high and low MW impurities which could complicate MS results.
- GL-Tip SDB are disposable and should not be reused.
- GL-Tip SDB should be stored in an environment with relatively constant temperature and humidity.

3. Solvent / Solution Preparation*

① Recommended Chemicals

- Highly pure acetonitrile (HPLC grade or higher)
- Trifluoroacetic acid (HPLC grade or higher)

② Solutions Required

- Solution A: Water (0.1% TFA) or 5% acetonitrile aqueous solution (0.1% TFA)
- Solution B: 80% acetonitrile aqueous solution(0.1%TFA)

***Note: Prepare solutions A & B on the day of the experiment**



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4. Purification Protocol

Make sure that the solution is completely eluted from the tip column after each centrifuge operation.

When hydrophilic peptide cannot adsorb by GL-Tip SDB, please process adsorption flow through solution by GL-Tip GC.

(**RT: Room Temperature)

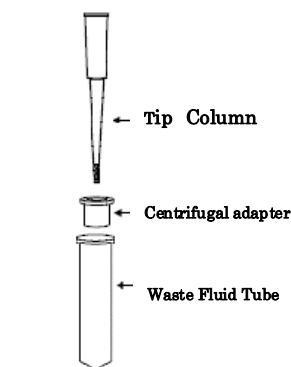
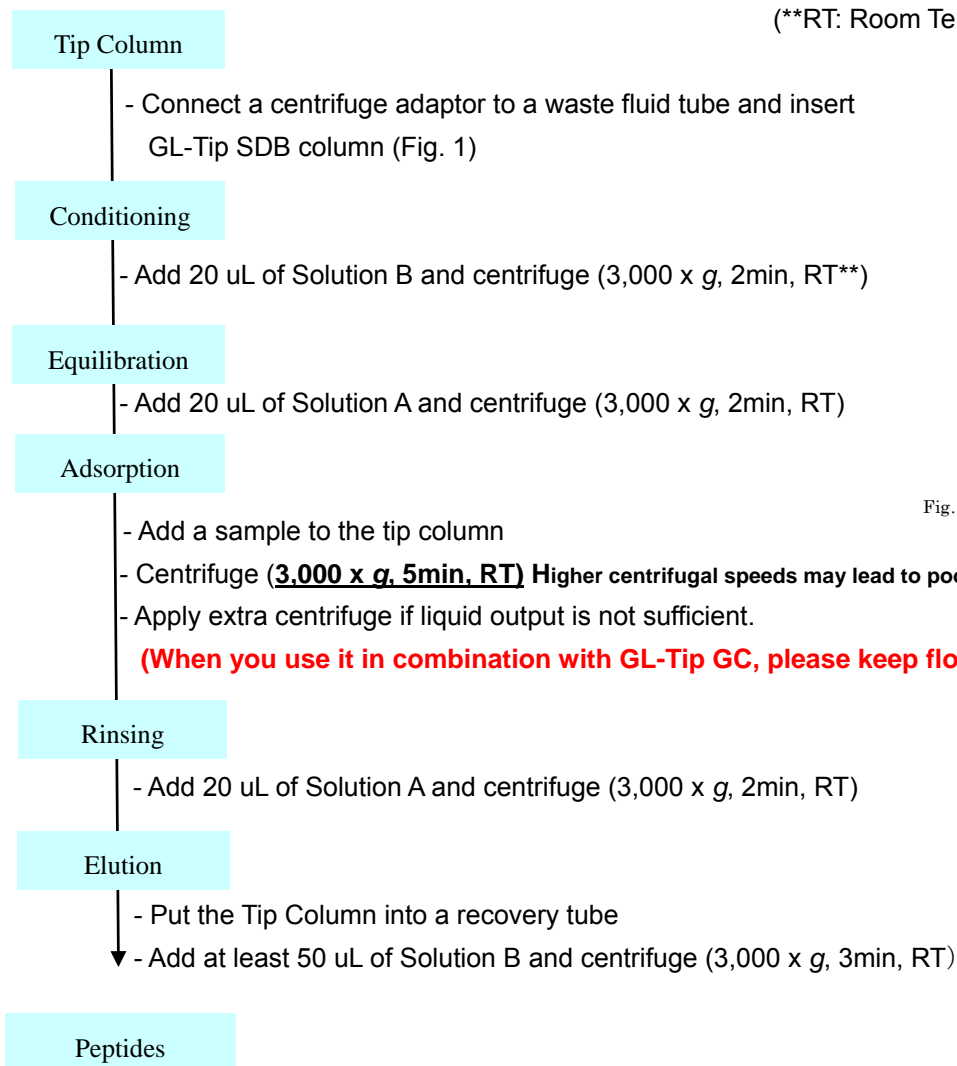


Fig.1 Setting of Tip Column

GL-Tip SDB is manufactured, inspected, packed and shipped under strict standards of quality control. Please contact us if you have questions regarding the proper use and performance of GL-Tips.

GL-Tips are intended for research purposes and no guarantees or warranties are expressed or implied beyond what is described herein.

- The following GL-Tip adaptors are used to secure the tips in the collection tubes or 96-well plates.
 - Part No.: 5010-21514: Centrifugal adaptor (24 units)
 - Part No.: 5010-21341: Centrifugal adaptor 200µL for 96 well plate (1 unit)
 - Part No.: 5010-21343: Centrifugal adaptor 200µL for 96 well plate (2 units)



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