

Strep-tag purification (Strep tactin purification kit from IBA)

Aim:

- Purify strep-tagged proteins

Timeframe:

- 95 minutes

Materials:

- Cleared cell lysate containing Strep-tagged protein
 - Strep -Tactin Superflow Lysis Buffer (Buffer NP)
 - Strep -Tactin Superflow Elution Buffer (Buffer NPD)
 - 10 ml syringes
 - Connector adapter
- (All buffers should be sterile filtered (0.2 or 0.45 μm) before use.)

Procedure (according to manufacturer's instruction):

1. Remove cartridge outlet stopper.
2. Equilibrate the cartridge with 5 column volumes of wash buffer. Do not use high pressure to force buffer through the cartridge. Ideal flow rates are 1 ml/min (1 ml cartridges).
3. Apply cleared lysate to the cartridge.
4. Wash the cartridge with 10 column volumes of Strep -Tactin wash Buffer.
5. Fill the column with Strep -Tactin Superflow Elution Buffer and elute protein from cartridge. Protein usually elutes within 5–10 column volumes.
6. Regenerate column : wash the column 3 CV of 50mM NaOH, and then wash with 5 CV of wash buffer.
7. Store in freezer at -20°C .