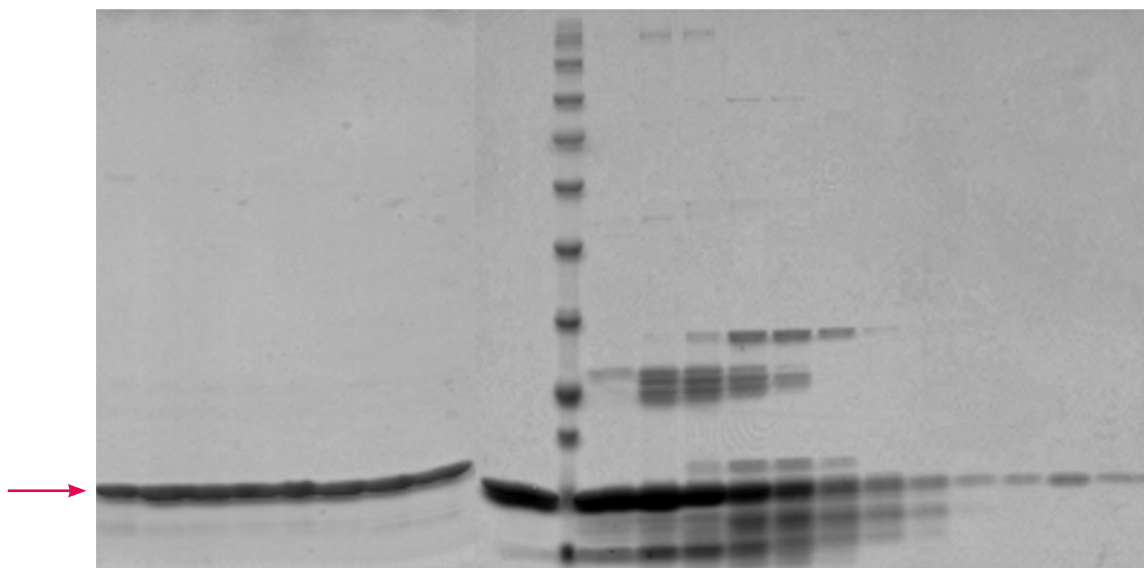


## 1. Example data

Protein was lysed under denaturing conditions and initially purified by ion exchange chromatography. Eluted fractions containing the protein were identified by SDS-PAGE

Ion Exchange Fractions



SDS-PAGE analysis of eluted ion exchange fractions to be further purified by RP-HPLC

### Protein Specifications:

134 amino acid zinc finger protein isolated from *E. coli*

MW: 16.4 kDa

PI: 9.45

GRAVY hydrophobicity index: -0.7

FPLC fractions were combined and diluted 3-fold with solvent A (H<sub>2</sub>O + 0.1% TFA) and filtered. The protein solution was loaded onto the puriFlash® column.

## 2. Flash conditions

**Device:** puriFlash® 430 (or now puriFlash® 5.020)

**Solvents:** A: Water + 0.1%TFA

B: ACN + 0.1% TFA

(D: protein solution or H<sub>2</sub>O for cleaning and storage)

**Column:** PP-15C18-F0080

**Flow rate:** 30mL/min

**Injection mode:** Liquid pump injection

Sample Load Method					
	Flow	A	B	C	D
Initial	30mL/min	0	0	0	100
02:00:00	30mL/min	0	0	0	100

The column was then washed until the absorbance returned to baseline utilizing the following method:

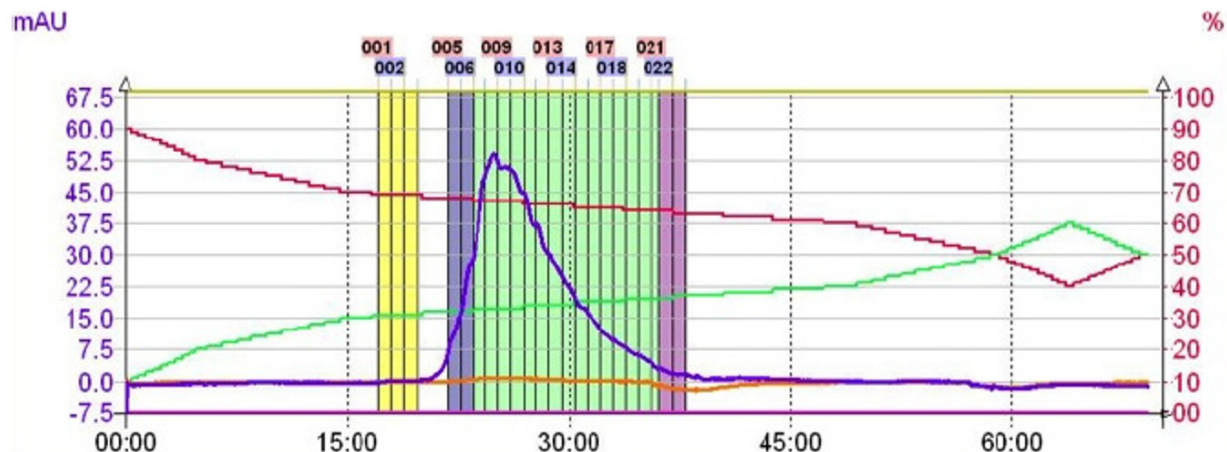
Column Wash Method			
	Flow	A	B
Initial	30mL/min	90	10
01:30:00	30mL/min	90	10

**Detection:** UV 220nm

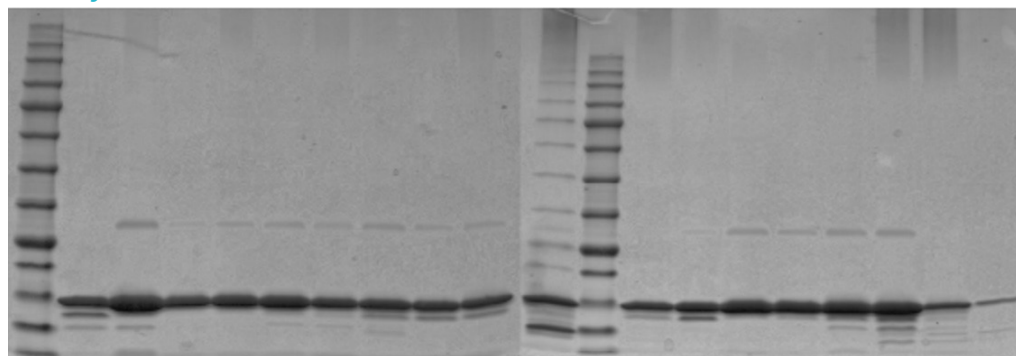
**Pressure:** 5bar

**Elution conditions:**

t (min)	A (%)	B (%)
00:00:00	90	10
00:00:05	90	10
00:05:00	80	20
00:15:00	70	30
00:49:00	60	40
00:59:00	50	50
01:04:00	40	60
01:09:00	50	50
01:09:10	50	50



## 3. Purity confirmation with SDS-PAGE



**To achieve this purification:**

**You will need**

- puriFlash® 5.020  
[Discover it](#) [Add to card](#)
- puriFlash® column PP-15C18-F0080  
[Discover it](#) [Add to card](#)

**We highly recommend**

- Magic box Flash AXF710 [Add to card](#)
- 21x150mm Rack AYHE60 [Add to card](#)
- Tubes 21x150mm FL1120 [Add to card](#)