



APTAMER INFORMATION CBYVH

Description:

- **Identifiers:** CBYVH
- **Target for positive selection:** *Staphylococcus aureus* cells (provided by customer) and Recombinant Protein A (Sino Biologicals, Cat. #10600-P07E)
- **Target for negative selection:** *Staphylococcus epidermidis* cells (provided by customer)

Aptamer was selected from a randomized 32-mer library against *Staphylococcus aureus* cells and Recombinant Protein A protein. Proprietary methods were then used to select the aptamer.

Aptamer folding instruction before use:

Once the aptamer is in its working concentration, it needs to be heated to 85-90 °C for 2 minutes, and then cooled to room temperature before use.

1b. Validation data with Recombinant Protein A by MST (Microscale Thermophoresis) method:

- **Buffer used for validation:** 1X PBS, pH = 7.4, 1 mM MgCl₂
- **Average K_d = 15.1 ± 1.8 nM**

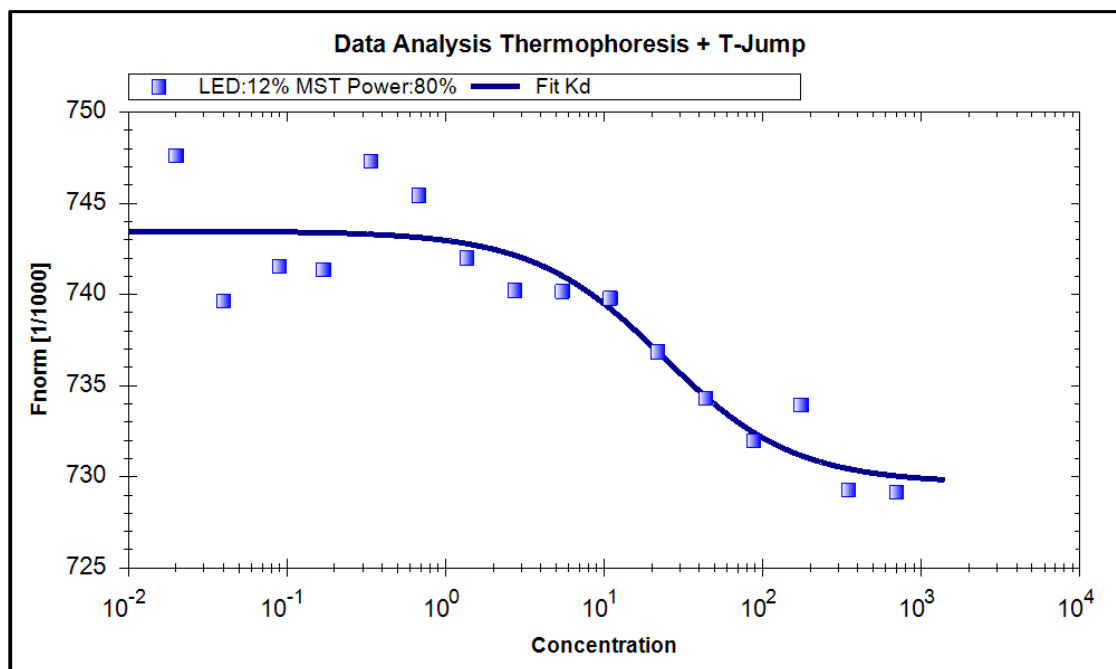


Figure 1. Aptamer-Protein A binding. The thermophoresis is plotted versus the titrated Protein A concentration.