

APTAMER INFORMATION

BoNT-B aptamers #981

1a. Description:

- Identifiers: BoNT-B aptamer #981
- Number of DNA nucleotides: 32 bases
- Molecular weight: 10,391.0 g/mol
- Target for selection: **Botulinum Neurotoxin Type B, Metabionics Inc.**

Aptamer was selected from a randomized 32-mer library against BoNT-B 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 BoNT-B by MST (Microscale Thermophoresis) method:

- Buffer used for validation: 1X PBS, pH = 7.4, 1 mM MgCl₂
- Average K_d = 3.1 ± 0.8 nM

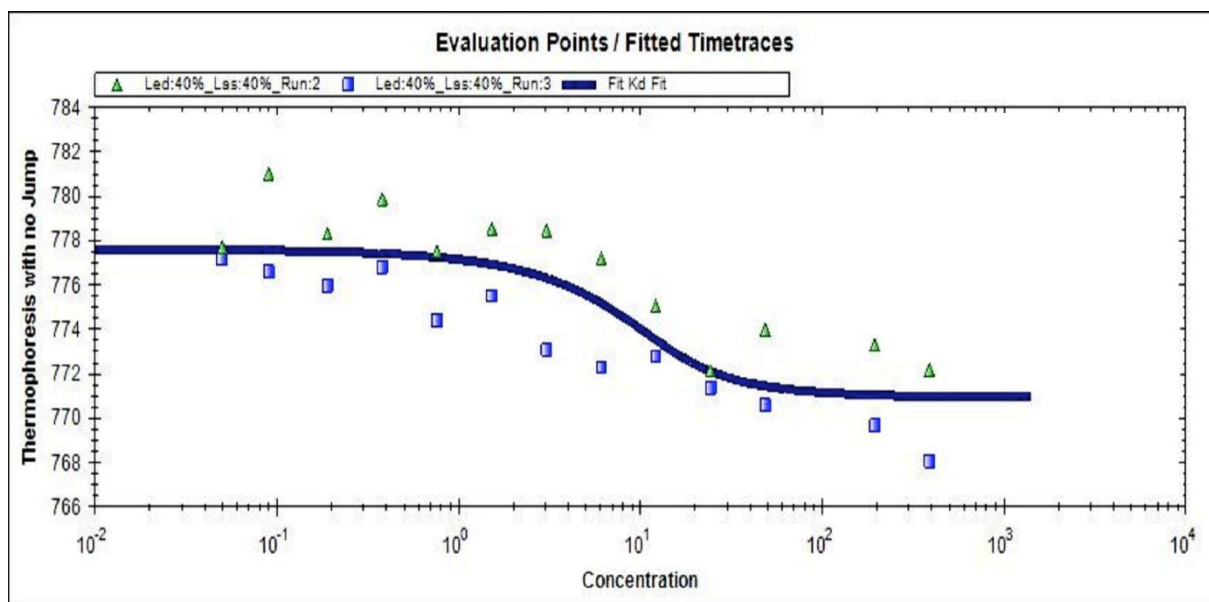


Figure 1. Experimental replicates 1 & 2. Aptamer-BoNT-B binding. The thermophoresis is plotted versus the titrated BoNT-B concentration.