



APTAMER INFORMATION

BoNT-B aptamers #983

1a. Description:

- **Identifiers:** BoNT-B aptamer #983
- **Number of DNA nucleotides:** 32 bases
- **Molecular weight:** 10,412.1 g/mol
- **Target for selection:** Botulinum Neurotoxin Type B, Metabioleics 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 = 3.2 ± 0.7 nM**

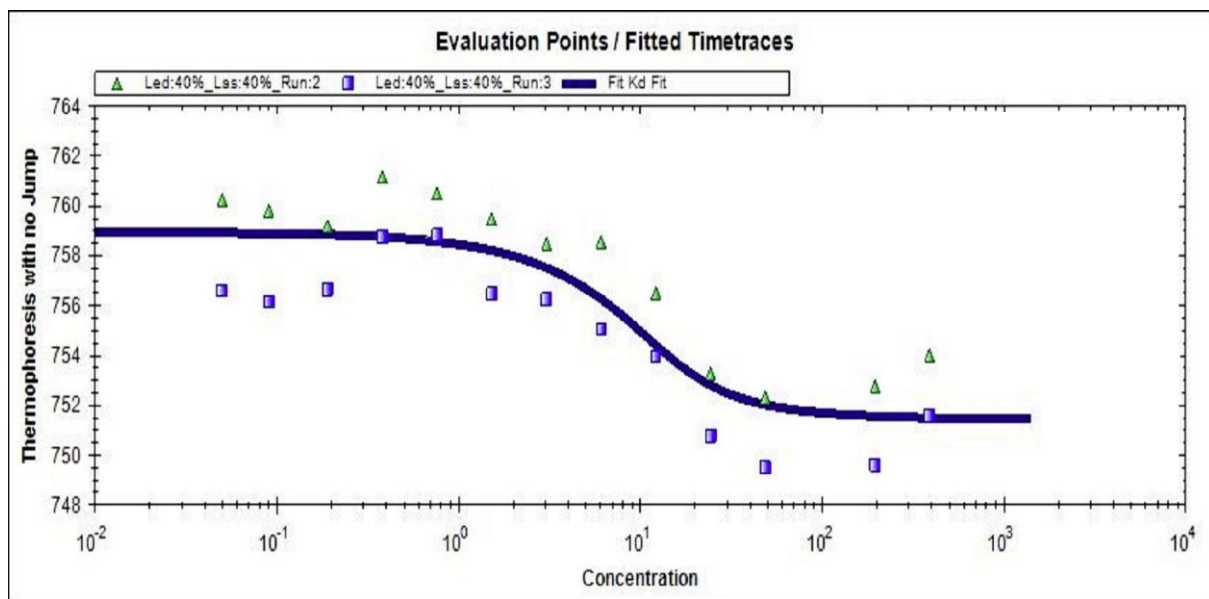


Figure 1. Experimental replicates 1 & 2. Aptamer-Bont-B binding. The thermophoresis is plotted versus the titrated Bont-B concentration.

