

## ATW0001 APTAMER INFORMATION Ampicillin

## **Description:**

- Identifiers: Ampicillin aptamer 5E01 #284
- Number of DNA nucleotides: 40 bases
- Molecular Weight: 12,239 g/mol
- Target for selection: Ampicillin sodium salt (US Biological Cat# A2260)

Aptamer was selected at Base Pair Biotechnologies from a randomized 40-mer DNA library against the target 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 85-95 °C for 5 minutes, and then cooled to room temperature (~15 minutes) before use.

Validation data by Microscale Thernophoresis (MST) analysis:

- Buffer used for validation: 1X PBS, pH = 7.4, 1 mM MgCl<sub>2</sub>, 0.05% Tween
- <u>Average K</u>d: 596.8 ± 76.2 nM



