
DNA Aptamer against *Escherichia coli* O157:H7

SKU# APT-043: DNA Aptamer against *Escherichia coli* O157:H7

Background

Outbreaks of foodborne diseases associated with pathogenic *Escherichia Coli* (*E. coli*) have been widely spread and grown as public health problems. Most of what we know about pathogenic *E. coli* comes from the outbreak studies of *E. coli* O157:H7 infection. The *E. coli* O157:H7 is a specific serotype of *E. coli*, which can cause watery diarrhea, hemorrhagic colitis, hemolytic-uremia syndrome (HUS) and thrombotic thrombocytopenic purpura (TTP), especially in young children and the elderly.

Aptamer type: DNA aptamer

Aptamer length: 42 bp

Affinity KD: 32.5 ± 3.15 nM

Kit contents

The following components are included in the Kit.

	Component	Quantity
APT-043-10	Single strand DNA, lyophilized powder	10 nmol
APT-043-30	Single strand DNA, lyophilized powder	30 nmol

- Store at -20° ; reagents are guaranteed stable for 12 months when properly stored.

References

Wu, W., et al., An Aptamer-Based Biosensor for Colorimetric Detection of *Escherichia coli* O157:H7. PLoS ONE, 2013, 7(11): e48999.