

# DNA Aptamer against Tetracycline

SKU# APT-048: DNA Aptamer against Tetracycline

## Background

Tetracycline is an oral antibiotic in the tetracyclines family of medications, used to treat various bacterial infections, including acne, cholera, brucellosis, plague, malaria, and syphilis. Tetracycline classifies as protein synthesis inhibitor antibiotics and are considered to be broad-spectrum. Tetracycline has been extensively used in veterinary medicine as growth promoters for animals.

**Aptamer type:** DNA aptamer

**Aptamer length:** 76 bp

**Affinity KD:** 63.6 nM

## Kit contents

The following components are included in the Kit.

	Component	Quantity
APT-048-10	Single strand DNA, lyophilized powder	10 nmol
APT-048-30	Single strand DNA, lyophilized powder	30 nmol

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

## References

Niazi, J. H., Lee, S. J., & Gu, M. B., Single-stranded DNA aptamers specific for antibiotics tetracyclines. *Bioorganic & medicinal chemistry*, 2008, 16(15): 7245–7253.