



# Product Specifications

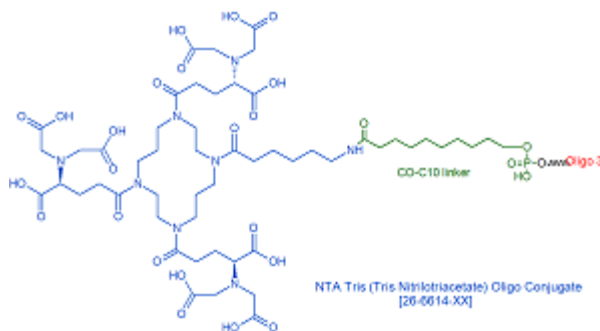
Custom Oligo Synthesis, antisense oligos, RNA oligos, chimeric oligos, Fluorescent dyes, Affinity Ligands, Spacers & Linkers, Duplex Stabilizers, Minor bases, labeled oligos, Molecular Beacons, siRNA, phosphonates Locked Nucleic Acids (LNA); 2'-5' linked Oligos

## Oligo Modifications

For research use only. Not for use in diagnostic procedures for clinical purposes.

### NTA Tris

Category	Affinity Ligands
Modification Code	NTA-Tris
Reference Catalog Number	26-6614
5 Prime	Y
3 Prime	N
Internal	N
Molecular Weight(mw)	1049



Gene Link provides custom synthesis of NTA Tris (Nitrilotriacetate) Oligo Conjugate. NTA-Tris modification is a post synthesis conjugation to an active NHS group of either a NHS-Carboxy C10 or a NHS-dT group thus an additional modification is required at the 5' end with additional charges for that modification. **YIELD** NHS based modifications are post synthesis conjugation performed, the yield is lower as compared to direct automated coupling of modifications that are available as amidites. Approximate yield for various scales are given below.

Yield given below are for oligos shorter than 50mer. Please see longer oligos yield at this link Long Oligo Typical Yield.

~2 nmol final yield for 50 nmol scale synthesis.

~5 nmol final yield for 200 nmol scale synthesis.

~16 nmol final yield for 1 umol scale synthesis

~32 nmol final yield for 2 umol scale synthesis

~160 nmol final yield for 10 umol scale synthesis

~240 nmol final yield for 15 umol scale synthesis

Mono-NTA has an affinity of ~10 uM towards His-tag

Tris-NTA (3 Ni-NTA) groups bind His-tag with an affinity of ~10 uM towards His-tag. This is 10,000-fold higher affinity as compared to mono-NTA.

Binding is reversible with imidazole or EDTA

Allows reversible labeling of proteins or cell surfaces

Immobilize proteins, lipids or cells to surfaces

Enables wide variety of functional assays