DENA ZIST ASIA
Molecular Biology Products

# Oligo (dT)

**Oligo dT-18; Catalog number:** S-6011; **Size:** 30 µl 100 pmoles/µl; ready to use
**Oligo dT-18; Catalog number:** S-6011-1; **Size:** 50 µl 100 pmoles/µl; lyophilized
**Anchored Oligo dT-20; Catalog number:** S-6012; **Size:** 300-350 µl 100 pmoles/µl; lyophilized

**Notes:** Research Use Only.
This product insert declares that this product has been analysed and passed the quality control tests at the time of manufacure.

**Shipping:** ready to use on ice, lyophilized at ambient temperature

**Store at -20°C**

**Oligo dT-18 and anchored Oligo dT-20 primers are used for first-strand cDNA synthesis with reverse transcriptase. Oligo dT-18 primer is a string of 18 deoxythymidylic acid residues that hybridizes to the poly(A) tail of mRNA. Anchored Oligo dT-20 primer is a string of 20 deoxythymidylic acid residues that ends with V (either dG, dA, or dC) and then by dN (dA, dT, dG, or dC). This primer binds at exactly at the first base upstream of the poly(A) tail of the mRNA.**

## Preparation before first use:

The ready to use primers are supplied in distilled water at a concentration of 100 µM (100 pmoles/µl).

For lyophilized primers, Centrifuge the tube at 13000 rpm for 2 minutes. Add the volume indicated on the tube from nuclease-free water, vortex for 1 min, and let it seat for 3 minutes. Mix by vortexing for 1 min and breifly spin. This gives a 100 µM (100 pmoles/µl) solution.

## Guidelines for reverse transcription reaction

1. Thaw RNA and other materials on ice.
2. Add the reagents in the following order:
   - RNA (100 nanogram to 5 microgram) ... µl
   - Oligo (dT) 0.5 µl
   - $H_2O$ up to 13 µl
3. Incubate the tube at 70°C for 5 min.
4. Quickly chill the tube on ice.
5. Add the followings in order:
   - RT buffer (5x) 4 µl
   - dNTPs mix (10 mM each) 2 µl
6. Vortex, spin and incubate at 37°C for 5 min.
7. Add 1 µl (200 U) of RT enzyme.
8. Vortex, spin and incubate at the indicated temperature (for MMLV, 42°C) for 60 min. cDNA is made at the end of this period.
9. Stop the reaction by heating at 70°C for 10 min.
10. Chill on ice.
11. Store the cDNA at -20°C, or quickly set up a PCR reaction using cDNA as the template.