



NGS RNA Second Strand Synthesis Module

Catalog Number: E118-1, E118-2

Table 1. Kit Components and Storage

Kit Component	E118-1 (25 rxn)	E118-2 (100 rxn)	Storage	Stability
Second Strand Synthesis Reaction Buffer (10×)	100 µL	400 µL	-20 °C, avoid repeated free-thaw	The product is stable for 12 months when stored as directed.
Second Strand Synthesis Enzyme Mix	50 µL	200 µL		
Nuclease-free Water	250 µL	1 mL		

Product Description

The NGS Second Strand Synthesis Module contains the enzymes and buffers required to convert first strand cDNA into double stranded cDNA. The fast, user-friendly workflow has minimal hands-on time and is compatible with upstream first strand cDNA synthesis.

Applications

- ❖ RNA-Seq Library Construction.

Protocol

1. In a nuclease-free 0.2 mL PCR tube, mix the following components on ice:

First-Strand Synthesis Product	20 µL
Second Strand Synthesis Reaction Buffer	4 µL
Second Strand Synthesis Enzyme Mix	2 µL
Nuclease-free Water	14 µL
Total volumes	40 µL
2. Mix by pipetting gently up and down.
3. Incubate the samples in a thermal cycler at 16 °C for 2.5 hours.
4. Place the tube on ice.
5. Purify the double-stranded cDNA using AMPure XP beads or SPRIselect Beads.