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User's Manual and Instructions

MagSeq mRNA Purification Kit

Catalog No.: K2012008

Introduction
MagSeq mRNA Purification Kit is specifically designed for mRNA isolation from Total RNA by magnetic beads.

Features
- Quick mRNA purification from Total RNA in less than an hour
- mRNA for next generation RNA sequencing or cDNA synthesis

Description
MagSeq mRNA Purification Kit contains reagents, including oligo (dT) magnetic beads, which is enough for 8 mRNA isolation. The kit's set up is perfectly compatible for next generation sequencing instrument, such as Illumina's HySeq, using Flow Cells with 8 channels.

Kit Contents

MagSeq mRNA Purification Kit	Part No.	Amount	Storage
MagSeq Oligo (dT) Solution	K2012008-1	900 µl	4°C
Bead Washing Solution	K2012008-2	1 ml x 7	4°C
Resuspension Solution	K2012008-3	500 µl	4°C
DEPC Water	K2012008-4	1 ml	4°C

Protocol

mRNA purification (vortex beads vigorously in each step to re-suspend beads and wash contaminates off)

1. Dilute 1~20 µg total RNA with DEPC Water to 50 µL in a 1.5 mL RNase free non-sticky tube
2. Heat at 70°C for 2 minutes to disrupt the secondary structures, and place on ice
3. Aliquot 50 µL of MagSeq Oligo(dT) Solution
4. Shake at RT for 5 minutes
5. Place the tubes on the magnetic stand for at least two minutes and remove the supernatant
6. Wash the beads twice with 200 µL of Bead Washing Solution. Vortex well to re-suspend beads. Place the tubes on the magnetic stand for at least two minutes and remove the supernatant
7. Add 50 µL of Resuspension Solution to the beads, heat at 70°C for 2 minutes to elute mRNA from the beads
8. Meanwhile, aliquot 50 µL MagSeq Oligo(dT) Solution to a new tube
9. After heating the bead and mRNA at 70°C for 2 minutes, immediately put it on the magnet stand for at least two minutes and then transfer the supernatant (mRNA) to the tube from step 8; shake RT for 5 minutes
10. Place the tubes on the magnetic stand for at least two minutes and remove the supernatant
11. Wash the beads twice with 200 µL of Bead Washing Solution. Vortex well to re-suspend beads. Place the tubes on the magnetic stand for at least two minutes and remove the supernatant.
12. Add 20 µL of DEPC Water to the beads, then heat at 70°C for 2 minutes to elute mRNA from the beads. Immediately put on the magnet stand for two minutes and transfer the supernatant (mRNA) to a fresh 200µL thin wall PCR tube, and there should be ~19µL of mRNA solution.
13. Determine mRNA isolation by UV, and use appropriate amount for sequencing or cDNA synthesis.