Datasheet

Cat# NBGN-100132
Version# RN5.9

Product Name	NebuChem™ Exosome Isolation Magnetic Beads
Size	1ml; Bulk
Description	NebuChem™ Exosome Isolation Magnetic Beads (CAT#NBGN-100132) is used for one-step exosome isolation from serum, plasma, saliva, or other bodily fluids.
Components	High-Efficient Exosome Binding Beads, 1ml (CAT#NBGN-100132A) 5X Binding Buffer, 2.5ml (CAT#NBGN-100132B) 10X Washing Buffer, 7.5ml (CAT#NBGN-100132C) Elution Buffer, 2ml (CAT#NBGN-100132D)
Principle	STEP1: Centrifugation--Host cells are separated and removed. STEP2: Bead Capture--Magnetic beads are utilized to capture and trap exosomes. STEP3: Washing--The beads undergo washing to eliminate nonspecific binding.
Protocol	**Materials Needed But Not Provided** 1) Sterile 1.5ml Centrifuge Tubes 2) Centrifuge 3) Micropipettes 4) RNase&DNase-Free Water 5) Magnetic Rack **Step A: Reagents Preparation** 1) Before pipetting, vortex to completely resuspend the magnetic beads. 2) Do not allow the magnetic beads to sit for more than 2 minutes before dispensing. 3) Dilute all the stock buffer with ultra-pure water to 1X working buffer **Step B: Sample Preparation** NebuChem™ Exosome Isolation Magnetic Beads is optimized for processing ~250µL of serum, plasma, saliva, or other bodily fluids. **Step C: Isolation & Purification** 1) Transfer 250µL of biological samples (serum, or plasma) to a 1.5 ml centrifuge tube. 2) Centrifuge at 12,000 x g for 10 minutes and carefully transfer the supernatant to a new 1.5 ml centrifuge tube without disturbing the pellet. 3) Add 250 µL of 1x Binding Buffer and 20µL of Magnetic Beads. Note: Vigorously shake the bottle until the magnetic beads become

	homogeneous before dispensing. Do not allow the beads to sit for more than 2 minutes before dispensing. Resuspend the magnetic beads every 2 minutes. 4) Mix the beads by gently pipetting up and down to mix for 20-25 times. 5) Separate the beads with a magnet and remove the supernatant. 6) Add 500 µl of Washing Buffer and wash the beads by pipetting up and down 5 -10 times. 7) Separate the beads with a magnet and remove the supernatant. 8) Repeat steps 6-7 to wash the beads three times. 9) Suspend the beads with 50 µL of Elution Buffer and pipet up and down for 20 times. 10) Separate the beads with a magnet and transfer the supernatant containing exosome lysates to a new centrifuge tube.to a fresh tube. 11) The exosome is ready for downstream applications.
Storage	2 - 8°C; Freezing is prohibited