



MNG LABORATORIES
Neurogenetic Answers™

RNA Sequencing – MNG Transcriptome™ Blood Collection & Shipping Instructions

Collection Instructions:

1. Keep Tempus Collection Tubes at 4°C until ready to use
2. Draw blood sample directly into the blue Tempus Collection Tube
 - Remaining tube volume is approximately 3ml
3. Shake vigorously or vortex for 10 seconds
4. Ensure specimen is labeled with patient name, date of birth and collection date. Each specimen must be labeled with at least two (2) patient identifiers
5. Place collection tube into a biohazard bag and then into foam insert and include the completed test request form for RNA Sequencing in the MNG test kit

Shipping Instructions:

1. Ship the sample back to MNG as soon as possible with the included prepaid FedEx label and Clinical Pack
2. Please do not collect sample or ship on a Friday if possible
3. Sample stability is up to 5 days at room temperature or one week at 4°C, but MNG suggests to ship the sample on the same day the sample is drawn
4. International shipments require a Commercial Invoice for customs. Please include three (3) copies

Please call MNG Labs with any questions regarding sample preparation or shipping questions at 678-225-0222



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Fibroblasts

Cultured Cells: Two T-25 flasks of fibroblasts. Flasks should be shipped in an insulated container at room temperature. Flasks should be completely filled with media and cells should be ~90% confluent. Fibroblast samples must be certified free from Mycoplasma; MNG can also perform this testing.

Cell Pellet: Cells should be harvested, spun down, and supernatant removed. Cells should be snap frozen in liquid nitrogen or dry ice and stored at or below -80 °C until shipped on dry ice. Minimum Quantity - 1×10^6 cells, Preferred Quantity - 5×10^6 cells

Muscle Biopsy

50-75 milligrams muscle snap frozen in liquid nitrogen and maintained at -80°Celsius or below. Muscle samples should be shipped frozen in an insulated container with 3-5 lbs dry ice.

Skin Biopsy

2-5 mm skin punch (punch should be 2mm in depth) Store skin biopsy in a sterile container with appropriate media. Ship overnight in an insulated container. If specimen is frozen in liquid nitrogen, keep frozen and ship overnight in an insulated container with 3-5 lbs dry ice.

Extracted RNA

1-3 micrograms of extracted RNA stored in RNase free water or TE buffer. The tissue **must** be specified either on the tube or the requisition form. Keep specimen frozen and ship overnight in an insulated container with 3-5 lbs dry ice. Ship specimen overnight, frozen, with 3-5 lbs dry ice.

Ensure specimen is labeled with patient name, date of birth and collection date. Each specimen must be labeled with at least two (2) patient identifiers

Shipping Instructions:

1. Ship back to MNG priority overnight following the guidelines for each sample type above
2. Please do not collect sample or ship on a Friday if possible
3. For stored frozen tissue samples, please contact MNG Labs to confirm sample age and integrity for RNA sequencing
4. International shipments require a Commercial Invoice for customs. Please include three (3) copies

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