



MNG LABORATORIES

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**CSF COLLECTION INSTRUCTIONS
NEUROCHEMISTRY/METABOLIC**

No Sunday or Holiday Deliveries Accepted | CLIA License #11D0703390, State of Georgia License #060-381

Information Required for Requisition and Sample Labeling:

Be sure the samples are labeled properly with the Patient name and your facility ID number. Please include: tests required, sample date, date of birth, current medications and relevant history. Also be sure to fill out the billing information. Failure to provide this information may result in delayed testing.

The following instructions apply for the listed CSF Testing:

- NC01 5-Methyltetrahydrofolate
 - NC02 Neopterin
 - NC03 Tetrahydrobiopterin and Neopterin
 - NC04 Neurotransmitter Metabolites (5HIAA, HVA, 3OMD)
 - NC05 Pyridoxal 5-phosphate
 - NC06 Succinyladenosine
 - NC07 Sialic Acid
 - NC08 Alpha-amino adipic Semialdehyde
 - NC09 4-hydroxybutyric Acid
 - NC10 Glucose
- 1) Request a CSF collection kit online at Order kits online at www.mnglabs.com/kits. Tube #3 contains antioxidants necessary to protect the sample from oxidation. One set of tubes is required per patient. The total CSF volume required is 4.5 milliliters. If you do not have a CSF kit on hand:
 - Collect CSF as directed into numbered (1-5) 2.0 mL microcentrifuge tubes (or similar) as directed below, OR
 - Collect a pooled sample of CSF into one sterile tube.
 - **For both the collections above, NC03 analysis is unable to be performed due to lack of antioxidants found in our kit. Please order NC02 analysis.** Please contact the laboratory for more information.
 - 2) **CSF should be collected directly from the tap needle: Collect from the first drop in to the containers in the order indicated.**
 - Fill each tube sequentially to the marked line (0.5 milliliter in tubes 1, 2, & 5 – 1.0 milliliters in tubes 3 & 4).
 - Attach patient identifiers to each tube without covering the tube number.
 - If there is no blood contamination, place the tubes into a biohazard bag and place on ice (or dry ice if available) at the bedside. Transfer the samples to a -80°C freezer ASAP. Ship on dry ice
 - 3) **If the sample is blood contaminated:**
 - Centrifuge the tubes prior to freezing,
 - Transfer the clear supernatant into new numbered (1-5) tubes,
 - Freeze and store at -80°C ASAP.

CSF Pyruvate Analysis (MET 11) is not included in the above kit instructions. To submit a sample for this analysis:

- 1) Add 1 mL of CSF to 2 mL of COLD 6-8 % perchloric acid.
- 2) Freeze immediately at -80 °C and ship on dry ice.