

http://BSWHealth.med/IMD

3434 Live Oak Street, Dallas, Texas 75204 Tel: 214 820 4533 | Fax: 214 820 4853

### METABOLITE TEST REQUISITION FORM

updated 14MAY25

updated 1	
PATIENT INF	ORIVIATION
Last Name:	
First Name:	- OR –
DOB:	
Sex: Male Female	Place Patient Sticker Here
Medical Record #/Patient ID #:	<b></b>
SPECIMEN INFORMATION	PHYSICIAN INFORMATION
Accession/Lab ID #:	Ordering Physician:
Specimen Type:	Phone:
Specimen Date: Time:	
ADDITIONALI	
ADDITIONAL II Primary presenting symptom(s):	
Abnormal lab(s):	
Suspected diagnosis:	
Diet or infant formula:	
Medication(s):  If this space is not sufficient please atta	ach clinical summary or patient history.
TEST(S) RESQUESTED	RESULTS INFORMATION
5- Methyltetrahydrofolate - CSF	Name:
Acylcarnitine profile - DBS, plasma or serum	Results Address:
Amino acids - plasma, serum or CSF	Treatment / daileast.
Carnitine levels - plasma or serum	Phone:
GABA (free and total) - CSF	Fax:
Homocysteine (total) - plasma or serum	
Lactate - csF	BILLING INFORMATION
Monoamine neurotransmitter metabolites - CSF*	Name:
Neopterin - CSF	Billing Address:
Organic acids - urine	
Tetrahydrobiopterin and neopterin - CSF*	Phone:
S-Adenosylmethionine/S-Adenosylhomocysteine - plasma	Fax:
(research test)	The IMD does not bill patients, Medicare, Medicaid, or insurance.
*Must be collected in Baylor CSF collection tubes	
	Baylor Use Only
	Daylor Ode Olly



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### **Metabolite Specimen Requirement Information**

Test Name	Specimen Requirements	Shipping	Turnaround Time	CPT Code
5-Methyltetrahydrofolate	• CSF- 0.5 mL; minimum 250 µL; store at -20°C until transport Can be collected in a large sterile tube or a Baylor provided CSF collection kit.	3-4 pounds dry ice	10 business days	83789
Acylcarnitine profile	DBS (preferred*)- 3 filled spots; minimum is 1 spot; air-dry for 4-6 hours and then store individually until transport in glassine envelope at room temperature for up to 1 week or at 2-8°C for up to 2 weeks, or 1 month if stored at -20°. Storage time includes transport.  Plasma/Serum- 0.2 mL of heparinized/EDTA plasma/serum; minimum is 0.1 mL; store at -20°C until transport.	DBS - room temperature or cold packs, depending on how the specimen was stored before transport      Plasma/Serum- 3-4 pounds dry ice	3 business days	82017
Amino acids	<ul> <li>CSF- 0.5 mL; minimum 250 μL; store at -20°C until transport Can be collected in a large sterile tube or a Baylor provided CSF collection kit.</li> <li>Plasma (preferred)/Serum- 1 mL of plasma (green or purple-top)/serum (pink or tiger-top); minimum is 250 μL; separate within 1 hour of collection and store at -20°C until transport.</li> </ul>	3-4 pounds dry ice (all specimen types)	5 business days	82139
Carnitine levels	Plasma(preferred**)/Serum- 0.2 mL of heparinized/EDTA plasma/serum; minimum is 0.1 mL; store at -20°C until transport.	Plasma/Serum- 3- 4 pounds dry ice	3 business days	82379
GABA (free and total)	• CSF- 1 mL; minimum 250 µL; store at -20°C until transport Can be collected in a large sterile tube or a Baylor provided CSF collection kit.	3-4 pounds dry ice	10 business days	83789
Homocysteine (total)	<ul> <li>Plasma /Serum- 1 mL of plasma (green or purple-top)/serum (pink or tiger-top); minimum is 250 μL; separate within 2 hours of collection and store at 2-8°C for up to 24 hours or at -20°C (1 month) until transport</li> </ul>	3-4 pounds dry ice	5 business days	83090
Lactate	• CSF- 1 mL; minimum 250 μL; store at -20°C until transport Can be collected in a large sterile tube or a Baylor provided CSF collection kit.	3-4 pounds dry ice	10 business days	83605
Monoamine neurotransmitter metabolites (HVA, 3-OMD and 5-HIAA)	• <u>CSF^</u> - 0.5 mL; minimum 250 μL; store at -20°C until transport Must be collected in a Baylor provided CSF collection kit.	3-4 pounds dry ice	10 business days	82542



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Test Name	Specimen Requirements	Shipping	Turnaround Time	CPT Code
Neopterin	<u>CSF- 1 mL</u> ; minimum 0.2 mL; store at -20°C until transport  Can be collected in a large sterile tube or a Baylor provided CSF collection kit.	3-4 pounds dry ice	10 business days	82542
Organic acids	Urine- 3 mL; minimum is 1 mL; store at 2-8°C immediately and freeze at -20°C within 4 hours	3-4 pounds dry ice (if local, ice packs may be used)	7 business days	83918
S-adenosylmethionine and S-adenosylhomocysteine (SAM/SAH)	Plasma/Serum -0.5 mL of plasma (green or purple-top)/serum (pink or tiger-top; minimum 0.25 mL; separated within 1 hour of collection and stored at 2-8°C for up to 4 hours or at -20°C (1 month) until transport. (Research Method)	3-4 pounds dry ice	15 business days	Research
Tetrahydrobiopterin and neopterin	<u>CSF^-</u> 1 mL; minimum 0.2 mL; store at -20°C until transport      Must be collected in a Baylor provided CSF collection kit.	3-4 pounds dry ice	10 business days	82542

<sup>\*</sup> Acylcarnitine profile- The preferred specimen is dried blood spots (DBS) because the long-chain acylcarnitines are absorbed on the surface of the red cells, so that the normal levels are much higher for DBS than in plasma. Therefore, the elevations of these in some milder forms of long-chain fatty acid oxidation disorders may not be as reliably detected in the plasma as they are in the DBS. Serum levels are acceptable.

^ Follow the steps located on the CSF collection protocol sheet.

#### ADDITIONAL INFORMATION

- All specimens must be labeled with at least two patient identifiers that match the test requisition. All specimens will be rejected if they are received without two matching patient identifiers.
- Use indelible ink or gummed labels to label specimens.
- As per CLIA and CAP regulations, all specimens must be submitted with a complete test requisition.
- Place specimens inside a specimen transport bag and the associated documents inside the pouch in the specimen transport bag. Do NOT place the documentation inside the specimen transport bag with the specimen.
- Laboratory Hours: Monday through Friday, 8:30 am 5:00 pm (CST).
- Always ship Monday-Thursday using an overnight trackable courier.
- No Saturday deliveries accepted.
- For STAT analysis, please contact the CLIA Director, Erland Arning, Ph.D. CC (NRCC) (Erland.Arning@BSWHealth.org)
- Only critical results are reported immediately by telephone and fax.
- Preliminary results are available by telephone, fax, or email within the turnaround time specified.
- Result reports are faxed to the submitter and physician (if provided).
- The IMD does not bill patients, Medicare, Medicaid, or insurance.

<sup>\*\*</sup> Carnitine levels- The preferred specimen is plasma because the free carnitine levels in plasma reflect the circulating available free carnitine, and physicians are more familiar with the normal ranges for plasma free carnitine. Serum specimens are acceptable.



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 Contact client services at (214)820-4533 with questions about test price, CPT codes, billing, or invoicing.

#### **WEB ADDRESS**

HTTPS://WWW.BSWHEALTH.COM/MEDICAL-PROFESSIONALS/RESEARCH/INSTITUTE-OF-METABOLIC-DISEASE

#### SHIPPING ADDRESS

Institute of Metabolic Disease ATTN: Sample Processing 3434 Live Oak Street Dallas, TX 75204

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### **CSF COLLECTION PROTOCOL**

#### **REQUIREMENTS**

- The CSF must be collected in our sample collection tubes for the measurement of <u>Monoamine Neurotransmitter Metabolites and Tetrahydrobiopterin</u> metabolite assays (these specimens may be used for 5-MTHF, Amino Acids, Lactate, and GABA as well, if requested).
- Call the Institute of Metabolic Disease (214-820-4533) to obtain appropriate sample collection tubes.
- Each sample collection set consists of 5 microcentrifuge tubes in a cardboard holder. Tube #3 contains antioxidants necessary to protect the sample integrity. One set of tubes is required per patient.
- Contact us at 214-820-4533 if you have any additional questions or visit our website at HTTPS://WWW.BSWHEALTH.COM/MEDICAL-PROFESSIONALS/RESEARCH/INSTITUTE-OF-METABOLIC-DISEASE
- If the sample has already been collected without using our Special Collection Kit, please contact us at 214-820-4533 to discuss testing options.

#### **COLLECTION INSTRUCTIONS**

- The CSF must be collected from the first drop into the designated tubes in the order indicated in the following table. DO NOT COLLECT THE CSF IN ONE LARGE TUBE AND ALIQUOT IT INTO THE TUBE SET.
- 2. Fill each tube to the marked line with the following volumes, indicated in the following table.

Tube Number	Required volume	
1	0.5 mL	
2	0.5 mL	The total CSF volume
3	1.0 mL	required is at least
4	1.0 mL	3.5 mL
5	0.5 mL	

FAILURE TO FOLLOW THE COLLECTION INSTRUCTIONS MAY RESULT IN SAMPLE REJECTION.

- 3. If the samples are <u>not blood-contaminated</u>, place the tubes on ice (or dry ice if available) at the bedside. Transfer the samples to a -80°C freezer ASAP. If the samples are blood contaminated, the tubes should immediately be centrifuged (before freezing) and the clear CSF transferred to new, similarly labeled tubes, then frozen and stored at -80°C ASAP. **BLOOD-CONTAMINATED SAMPLES MAY BE REJECTED!**
- 4. Store all samples at -80°C until transport.