Indiana University Biochemical Genetics REQUISITION FORM

Indiana University School of Medicine
Department of Medical and Molecular Genetics
975 W. Walnut Street, IB 350, Indianapolis, IN. 46202
Phone: 317-278-6486 Fax: 317 278-1616 *CAP#1678930/CLIA#15D0647198*

SHIP SPECIMENS TO: 975 W. Walnut Street, IB 350, Indianapolis, IN 46202

Affix label here

PATIENT INFORMATION

Last Name	First Name	M
Social Security No.	DOB	Sex M ☐ F ☐
Mailing address		
Primary Phone	Outpatient / Inpatient	MRN
Patient Medications (including aspirin, cough medicine, vitamins in amounts greater than standard daily requirements):		
Diet: ☐ Normal ☐ Special / Please specify:		

PHYSICIAN INFORMATION

Ordering Physician	Physician Phone
Physican address	
Physician Fax	Physician Pager

BILLING INFORMATION

Attach copy of demographics, insurance I.D. Cards (front and back)

Bill to: ☐ **Client** ☐ **Patient (Insurance/Medicare/Medicaid)**

Medicare No.	Medicaid No.

Primary Insurance

Primary Insurance	Policy No.
Group Name	Group No.
Address	
Insured Name	Relationship

Secondary Insurance

Secondary Insurance	Secondary Ins. No.
Group Name	Group No.
Address	
Insured Name	Relationship

SPECIMEN INFORMATION

ICD-9 Code/Diagnosis/Reason for Referral:

Date/Time Collected:

☐ First Morning ☐ Random

LAB USE ONLY

Date/Time Received: _____

Received By: _____

Circle/mark the checkbox for your requested testing from the list below:

Check for order		CPT code(s)	Test	Sample type* preferred	Sample type* other acceptable	Specimen Volume (ml) preferred	Specimen Volume (ml) mimimum
	☐	83919, 82570	Urine Organic Acid Screen	U		**10**	*4*
	☐	82379	Free/Total Carnitine Analysis	PH	SE, PE	**1**	*0.2*
	☐	82017	Acyl carnitine Analysis	PH	SE	**1**	*0.1*
	☐	82139,82570	Urine Amino Acid Analysis	U		**1**	*0.1*
	☐	82139	Plasma Amino Acid Analysis	PH		**1**	*0.1*
	☐	82139	CSF Amino Acid Analysis	C		**0.5**	*0.1*
	☐	83921	Serum Methylmalonic Acid Analysis	SE	PH, PE	**0.5**	*0.1*
	☐	84030, 84510	Phenylalanine &Tyrosine Blood Spot Analysis	BSP		**2 full spots**	

***Sample type Key**: ****PH** Plasma, heparin (Green top) **SE** Serum (Red top) **PE** Plasma, EDTA (Lavender top) **BSP** Blood spot (Whatman 903)

****Sodium heparin plasma is preferred, but lithium heparin plasma is acceptable** **C** Cerebral Spinal Fluid **U** Urine

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SPECIMEN HANDLING: (Specimens received in lab Monday-Friday ONLY)

Collection	**PLASMA/SERUM:**	• Separate and freeze sample as soon as possible • Samples stored as whole blood >4 hours are NOT ACCEPTABLE for amino acid analysis • Gel-based separation tubes (PSTs or SSTs) are NOT ACCEPTABLE
	URINE:	• Collect random clean catch urine in a container free of preservatives or additives • Freeze as soon as possible
	CSF:	• Plasma amino acid analysis should be collected and sent concurrently with all CSF amino acid analyses • Collect CSF in a tube free of preservatives and store frozen as soon as possible • CSF should appear clear and free of pink/yellow/red coloration • Blood/plasma contaminated CSF samples will be analyzed but the result will likely be uninterpretable
	BLOOD SPOT:	• Use only Whatman 903 type blood spot cards • Clean finger/heel prior to collection to remove lotions, soaps, powders or other foreign material • Generate a single large blood drop prior to spotting. The goal is to fill a circle entirely with 1 drop. • Allow cards to dry completely (at least 4 hours) prior to shipment.
Shipping		• A requisition form must be sent with each specimen. • Label all containers and forms with the patient's name, date of birth, MRN, and date of collection. • Ship frozen samples by overnight courier in an insulated container with 3 -5 lbs dry ice. • Serum methylmalonic acid and blood spot specimens may be shipped at ambient temperature if arriving within 1 week of collection. • Unused portions of specimens are stored in lab for a minimum of 2 months.

Analytes Reported by Test:

CSF Amino Acid Analysis	Urine Amino Acid Analysis	Plasma Amino Acid Analysis	Plasma Acylcarnitine Analysis
1. Alanine 2. Arginine 3. Asparagine 4. Aspartate 5. Creatine 6. Creatinine 7. Citrulline 8. Glutamate 9. Glutamine 10. Guanidinoacetate 11. Glycine 12. Histidine 13. Isoleucine 14. Leucine 15. Lysine 16. Methionine 17. Ornithine 18. Phenylalanine 19. Pipecolic Acid 20. Proline 21. Serine 22. Sulfocysteine 23. Taurine 24. Threonine 25. Tryptophan 26. Tyrosine 27. Valine	1. 3-Methylhistidine 2. Alanine 3. Alloisoleucine 4. Alpha-aminoadipate 5. Alpha-amino-n-butyrate 6. Anserine 7. Arginine 8. Argininosuccinate 9. Asparagine 10. Aspartate 11. Beta-alanine 12. Beta-AminoIsobutyrate 13. Citrulline 14. Creatine 15. Creatinine 16. Cystathionine 17. Cystine 18. Delta-aminolevulinate 19. Gamma-amino-n-butyrate 20. Glutamate 21. Glutamine 22. Guanidinoacetate 23. Glycine 24. Histidine 25. Homocitrulline 26. Homocystine 27. Hydroxyproline 28. Isoleucine 29. Leucine 30. Lysine 31. Methionine 32. Ornithine 33. Phenylalanine 34. Proline 35. Sarcosine 36. Serine 37. Sulfocysteine 38. Taurine 39. Threonine 40. Tryptophan 41. Tyrosine 42. Valine	1. Alanine 2. Alloisoleucine 3. Alpha-aminoadipate 4. Alpha-amino-n-butyrate 5. Arginine 6. Argininosuccinate 7. Asparagine 8. Aspartate 9. Citrulline 10. Creatine 11. Creatinine 12. Glutamate 13. Glutamine 14. Guanidinoacetate 15. Glycine 16. Histidine 17. Homocitrulline 18. Homocystine 19. Hydroxyproline 20. Isoleucine 21. Leucine 22. Lysine 23. Methionine 24. Ornithine 25. Phenylalanine 26. Pipecolic Acid 27. Proline 28. Sarcosine 29. Serine 30. Taurine 31. Threonine 32. Tryptophan 33. Tyrosine 34. Valine	1. Acetyl (C2) 2. Propionyl (C3) 3. Butyryl (C4) 4. Pentenoyl (C5:1) 5. Pentanoyl (C5) 6. Hexanoyl (C6) 7. Octenoyl (C8:1) 8. Octanoyl (C8) 9. Decadienoyl (C10:2) 10. Decenoyl (C10:1) 11. Decanoyl (C10) 12. Dodecenoyl (C12:1) 13. Dodecanoyl (C12) 14. Tetradecadienoyl (C14:2) 15. Tetradecenoyl (C14:1) 16. Tetradecanoyl (C14) 17. Hexadecenoyl (C16:1) 18. Hexadecanoyl (C16) 19. Octadecadienoyl (C18:2) 20. Octadecenoyl (C18:1) 21. Octadecanoyl (C18) 22. Forminoglutamate(FIGLU) 23. Malonyl (C3:DC) 24. Methylmalonyl/Succinyl (C4:DC) 25. Glutaryl (C5:DC) 25.3-Methylglutaryl (C6:DC) 26. Hydroxybutyrl (C4:OH) 27. Hydoxypentanoyl (C5:OH) 28. 3-Hydroxydecenoyl (C10:10H) 29. Hydroxytetradecanoyl (C14:OH) 30. Hydroxyhexadecenoyl (C16:10H) 31. Hydroxyhexadecanoyl (C16:OH) 32. Hydroxyloleyl (C18:10H) 33. Hydroxystearoyl (C18:OH)