



## Center for Inherited Disorders of Energy Metabolism

University Hospitals Case Medical Center, WEARN Room 649 • 11100 Euclid Avenue • Cleveland, Ohio 44106  
 Phone: (216) 844-1286 • Fax: (216) 844-8005 • [cidem@case.edu](mailto:cidem@case.edu) • [www.case.edu/med/CIDEM/](http://www.case.edu/med/CIDEM/)  
 Federal Tax ID 34-1720429 • NPI 1578706438 • CLIA ID # 36D0680824, 36D0925804

**Test and Price List** (Prices effective: September 5, 2011)

ASSAY TYPE	CPT Code(s)	SAMPLE TYPE(S)	Minimum Amount Required	ASSAY COST	ISOLATION / CULTURE COST	TOTAL COST
Amino acids (AA)	82139	Plasma#	500ul	\$355		\$355
Carnitine (CN)						
Carnitine Screening (Total and Free)	82379	Plasma	150 µl	\$80		\$80
		Tissues (Muscle, Heart, Liver)	20 mg	\$120		\$120
		Urine	350 µl	\$80		\$80
Acylcarnitine Profile (Quantitative; includes Total & Free)	82379, 82017	Plasma	250 µl	\$180		\$180
		Tissues (Muscle, Heart, Liver)	20 mg	\$220		\$220
		Urine	350 µl	\$180		\$180
Carnitine Acetyltransferase	84999	Skeletal Muscle		\$250		\$250
		Skin Fibroblasts * †	2 T25	\$250	\$350	\$600
Carnitine Acylcarnitine Translocase (includes Carnitine Acetyltransferase; PDC also required, see sep. listing)	84999	Skin Fibroblasts*†	2 T25	\$1000	\$550	\$1550
Carnitine Palmitoyltransferases I&II (CPT)	84999	ACD Blood for Lymphocytes *		\$450	\$120	\$570
		Skin Fibroblasts*†	2 T25	\$450	\$400	\$850
		Tissues (Muscle, Heart, Liver)	100 mg	\$450		\$450
Electron Transport Chain (ETC)						
- Complexes I – IV	84999	Skeletal, Muscle or Heart	100 mg	\$800		\$800
- Complexes II – IV		Liver	100 mg	\$700		\$700
- Complexes II – IV		Skin Fibroblasts * †	2 T25	\$700	\$400	\$1100
Fatty Acid Oxidation Enzymes (FAO)						
- Acyl-CoA Dehydrogenases (Short-, Medium-, and Long Chain)	84999	Skin Fibroblasts*†	2 T25	\$800	\$400	\$1200
		Tissues (Muscle, Heart, Liver)	100 mg	\$800		\$ 800
- Short Chain: 3-OH Acyl-CoA Dehydrogenase, 3-Ketothiolase	84999	Skin Fibroblasts*†	2 T25	\$400	\$400	\$800
		Tissues (Muscle, Heart, Liver)	100 mg	\$400		\$400



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**Test and Price List** (Prices effective: August 15, 2011)

<u>ASSAY TYPE</u>	<u>CPT Code(s)</u>	<u>SAMPLE TYPE(S)</u>	<u>Minimum Amount Required</u>	<u>ASSAY COST</u>	<u>ISOLATION/CULTURE COST</u>	<u>TOTAL COST</u>
Free Fatty Acids (FFA)	82725	Plasma	500 µl	\$120		\$120
Fumarase (including citrate synthase)	84999	Skin Fibroblasts*† Tissues (Muscle, Heart, Liver)	3 T25 100 mg	\$300 \$300	\$350	\$650 \$300
β-Hydroxybutyrate & Acetoacetate	82010	Plasma	200 µl	\$75		\$75
α-Ketoglutarate Dehydrogenase Complex (KDC), and dihydrolipoamide dehydrogenase	84999	ACD Blood for Lymphocytes * Skin Fibroblasts*† Tissues (Muscle, Heart, Liver)	 3 T25 50 mg	 \$350 \$350	\$120 \$350	 \$470 \$700 \$350
Lactate and Pyruvate (L/P)	83605, 84210	Deproteinized Blood or CSF	1 ml	\$75		\$75
β-Methylcrotonyl-CoA Carboxylase (BMCC) and pyruvate carboxylase	84999	Liver Skin Fibroblasts*†	50 mg 3 T25	\$550 \$550	\$350	\$550 \$900
Mycoplasma Testing at CIDEM	86738	Skin Fibroblasts*	3 T25	\$120		\$120
Organic Acids (OA),Semi-quantitative	83918, 82570	Urine	1 ml	\$195		\$195
<b>Oxidative Phosphorylation on Skin fibroblasts</b>	<b>84999</b>	<b>Skin Fibroblasts*†</b>	<b>3 T25</b>	<b>\$2000</b>	<b>\$400</b>	<b>\$2400</b>
Propionyl CoA Carboxylase (PCC) and pyruvate carboxylase	84999	Liver Skin Fibroblasts*†	50 mg 3 T25	\$550 \$550	\$350	\$550 \$900
Phosphoenolpyruvate Carboxykinase (PEPCK), including citrate synthase	84999	Liver Skin Fibroblasts*†	50 mg 3 T25	\$350 \$350	\$350	\$350 \$700
Pyruvate Carboxylase (PC) including citrate synthase	84999	Liver Skin Fibroblasts*†	50 mg 3 T25	\$350 \$350	\$350	\$350 \$700
PC and PEPCK, ordered at the same time	84999	Liver Skin Fibroblasts* †	50 mg 3 T25	\$550 \$550	\$350	\$550 \$900
Pyruvate Dehydrogenase Complex (PDC), and dihydrolipoamide dehydrogenase	84999	ACD Blood for Lymphocytes* Skin Fibroblasts*† Tissues (Muscle, Heart, Liver)	 3 T25 100 mg	 \$600 \$600	\$120 \$350	 \$720 \$950 \$600

\* May be shipped only on dates reserved in advance. Please call (216) 844-1286 at least two weeks before you would like to ship.

†Cell culture charges are CPT 88233 and 88240, and cannot be combined. # AA performed at UHCMC Dept of Pathology Core lab  
 The CIDEM Laboratory is open Monday through Friday, 8:30am – 5:00pm; closed on weekends and holidays.

Please ship samples Monday thru Wednesday only.