TEST NAME	Propionyl-CoA carboxylase (Skin Fibroblast)
TEST CODE	PCCFB
LOINC	
СРТ	82658X2, 82657, 84157, 88233
PANEL COMPONENTS	PCC, Citrate synthase (CS), PC:CS ratio, & Protein
SYNONYMS	PCC
TEST INDICATION	Useful for diagnostic confirmation of specific defects of propionyl-CoA
	carboxylase (usually recognized through organic acid or acylcarnitine
	analyses), for distinction from general defects of biotin
	sufficiency/metabolism, or for detection of heterozygosity. Assay of
	pyruvate carboxylase (another biotin enzyme) is included as an internal
	control.
METHOD DESCRIPTION	Radioactive enzyme assay of substrate specific 14CO2 fixation.
COLLECT	
	REQUIRES ADVANCE SCHEDULING
	Biopsy must be obtained under sterile conditions. Be careful to remove
	all betadine and alcohol and rinse with saline prior to obtaining the
SPECIMEN REQUIREMENTS	sample. Use a 3 or 4 mm punch biopsy kit or take from the site of
	incision for a muscle biopsy. Place biopsy in a container of sterile Hanks
	Balance Salt Solution (HBSS), sterile Ringer's Lactate, or other
	physiological solution.
	OR
	Two confluent T25 flasks filled to the neck with media in a non-vented
	flask and tape/parafilm shut. If several assays are ordered (more than
	3), the shipment of an additional T25 flask is recommended.
	Also the sell line AdjiCT he MAYCODI ACMA tested if your institution is
	Also the cell line MUST be MYCOPLASMA tested. If your institution is
	unable to test for mycoplasma, please tell us when you schedule a
SAMPLE	shipment. Skin biopsy or cultured skin fibroblasts
SAIVIFEE	A punch biopsy placed into a sterile container with Hanks Balance Salt
CONTAINER	Solution or physiological saline. OR
	2 T25 flasks of confluent cultured fibroblasts.
PREFERRED VOLUME	1 punch biopsy OR 2 T25 flasks of confluent cultured fibroblasts.
MINIMUM VOLUME	None.
TRANSPORT	Notice.
SAMPLE	Skin biopsy OR cultured skin fibroblasts
PREFERRED VOLUME	1 punch biopsy OR
PREI ERRED VOLOIVIE	2 T25 flasks of confluent cultured fibroblasts.
MINIMUM VOLUME	None.
TEMPERATURE	Room temperature
HANDLING	Two confluent T25 flasks filled to the neck with media with a non-
TIMED ENTO	vented flask and tape/parafilm shut. If more than three assays are
	ordered, an additional T25 flask is required.
SHIPPING INSTRUCTIONS	Ship at room temperature
SPECIAL INSTRUCTIONS	Advanced scheduling is required. Ship overnight
PERFORMED	UHCMC; Mon - Fri
TURN AROUND TIME	3-4 weeks for fibroblasts from T25
TOME AND ONE THAT	7-10 weeks from fibroblasts from skin biopsy
	7 TO WEEKS HOTH HISTORIASES HOTH SKIII DIOPSY

TEST NAME	Propionyl-CoA carboxylase (Liver)
TEST CODE	PCCL
LOINC	
СРТ	82658X2, 82657, 84157
PANEL COMPONENTS	PCC, Citrate synthase (CS), PC:CS ratio, & Protein
SYNONYMS	PCC
TEST INDICATION	Useful for diagnostic confirmation of specific defects of propionyl-CoA
	carboxylase (usually recognized through organic acid or acylcarnitine
	analyses), for distinction from general defects of biotin
	sufficiency/metabolism, or for detection of heterozygosity. Assay of
	pyruvate carboxylase (another biotin enzyme) is included as an internal
	control.
METHOD DESCRIPTION	Radioactive enzyme assay of substrate specific 14CO2 fixation.
COLLECT	
SAMPLE REQUIREMENTS	After a biopsy/autopsy, the tissue specimen should be immediately
	quick-frozen in liquid nitrogen.
SAMPLE	Liver
CONTAINER	Plastic tube or container
PREFERRED VOLUME	20 mg
MINIMUM VOLUME	5 mg
TRANSPORT	
SAMPLE	Liver
PREFERRED VOLUME	20 mg
MINIMUM VOLUME	5 mg
TEMPERATURE	Frozen on dry ice
HANDLING	Tissues obtained at biopsy or autopsy should be immediately frozen in
	liquid nitrogen or dry ice, and then stored at -60°C until shipment to
	CIDEM. Tissues must be packed in dry ice and shipped overnight.
	Samples received at CIDEM are stored at -60°C.
	Samples, which have thawed during shipment due to insufficient dry
	ice, or samples which have not been quick frozen or stored at -60°C
	may produce unsatisfactory results due to deterioration. Samples
	obtained at autopsy done more than ~8 hours after death may also
	produce unsatisfactory results due to autolysis. Submitters of such
	samples will be informed of the uncertainty of obtaining adequate
CHIRDING INCTRICTIONS	results prior to performing the assay.
SHIPPING INSTRUCTIONS	Ship on dry ice
SPECIAL INSTRUCTIONS	Ship overnight
PERFORMED	UHCMC; Mon - Fri
TURN AROUND TIME	2 weeks