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Analysis performed by:
CENTER FOR MITOCHONDRIAL DISEASES
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**Carnitine
Acylcarnitine
Translocase
Report**

91601

Patient Name: Xie, Jianhua	Test ID: 160
Date Of Birth: 16-Sep-12	SpecimenType: Skin Fibroblasts
Hospital Clinic Name: Center for Human Genetics, Cleveland, OH 44106	Cidem Number: 59928
Hospital Clinic ID: 71975067	Con Control Cidem Number: 43542
Location:	Sender's Acc No:
Physician: Bedoyan, Jirair	Date Received: 03-Dec-14
Physician's Fax: 216-844-7497	Date Collected: 03-Dec-14
TL Assay Date: 26-Jan-15	Time Collected:

Activity (nmol/min/mg protein)

	Patient	Control	Prior Controls Mean \pm SD	Range
			N= 70	
Translocase (0.5mM Carnitine):	1.40	1.34	1.3 \pm 0.4	(0.6-2.0)
Translocase (10mM Carnitine):	2.71	2.34	2.2 \pm 0.8	(0.9-3.8)
Citrate synthase:	64.00	50.70	46.1 \pm 12.5	(25.8-74.6)
mg/T-75:	1.71	1.56	1.6 \pm 0.5	(0.8-2.9)

Interpretation: The carnitine-acylcarnitine translocase activities at 0.5 and 10 mM carnitine are in the control range. Citrate synthase, a mitochondrial marker enzyme, is in the control range. The yield of fibroblast protein per T-75 flask is comparable to our experience. The quality control for all assays was within the acceptable limits.

These data indicate normal carnitine-acylcarnitine translocase activity in these cultured skin fibroblasts.

Charles L. Hoppel 03-Feb-15
Charles L. Hoppel MD Date