Services Offered

Human Clinical Samples

Quantitative Analysis

Phospholipid Analysis (including cardiolipin and monolysocardiolipin molecular species)

Isolated Skeletal Muscle Mitochondria

Cardiolipin and Monolysocardiolipin Analysis

- Skeletal Muscle
- Skin Fibroblasts

Available Fall 2012!

Quantitative Analysis

Phospholipid Analysis (including cardiolipin and monolysocardiolipin molecular species)

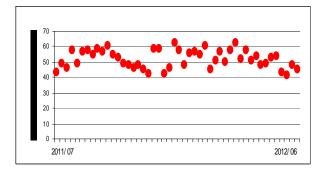
- Skeletal Muscle (frozen/fresh)
- Fibroblasts
- Blood

Team Members

Charles Hoppel, MD Juhnwan Kim, PhD Paul Minkler

Quality Control Results for Cardiolipin

Rat Skeletal Muscle Mitochondria, N = 48, 11% RSD



Center for Inherited Disorder of Energy Metabolism (CIDEM)

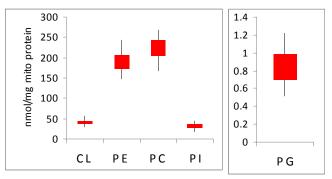
Wearn Bldg., Room 649 University Hospitals Case Medical Center 11100 Euclid Avenue, Cleveland OH 44106

> Tel: 216-844-1286 Fax:216-844-8005 cidem@case.edu www.case.edu/med/CIDEM/

> > Tax ID: 34-1720429 CLIA: 36D0680824 CLIA: 36D0925804 NPI: 1578706438

Isolated Human Skeletal Muscle Mitochondria

Reference Intervals: Box = Mean ±SD; Whiskers = Range



Center for Mitochondrial Diseases

Case Western Reserve University School of Medicine
Department of Pharmacology
10900 Euclid Avenue
Cleveland, Ohio 44106-4981

Among the nation's leading academic medical centers, University Hospitals Case Medical Center is the primary affiliate of Case Western Reserve University School of Medicine, a nationally recognized leader in medical research and education.

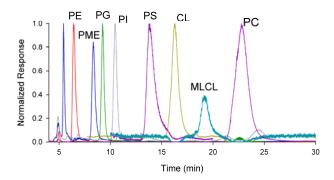






Center for Inherited
Disorders of Energy
Metabolism
ww.case.edu/med/CIDEM

Quantitative Phospholipid Analysis by HPLC-MS



Center for Mitochondrial Diseases

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