Tests supportive of fluoroquinolone toxicity:
Please verify CPT Codes with your medical provider
CPT Codes are for services

MitoSwab™
Purpose: Analyzes components of the Electron Transport Chain and measures citrate synthase activity - an indicator of the overall mitochondrial content within the cells
Please Note: Basic snapshot of mitochondrial enzyme health / cannot see full picture or energy output
Availability: Available nationwide; ordering via Integrative, DO, or Functional medicine doctors
Link: https://www.mitoswab.com/index.php

Nutreval FMV by Genova Diagnostics
Purpose: Comprehensive panel assessing nutrients, mitochondria, oxidative stress, and more (includes OAT test)
CPT Codes: Includes 82139, 83921x19, 83497, 83520, 82542x2
Lab: Genova Diagnostics
Availability: Available nationwide; ordering via Integrative, DO, or Functional medicine doctors
Link: https://www.gdx.net/products/nutreval

Neurofilament Light Chain (NfL) – Plasma
Purpose: Detects nerve damage
CPT Code: 83520
Lab: Labcorp
Link: https://www.labcorp.com/tests/140555/neurofilament-light-chain-plasma

Small Fiber Neuropathy Testing (Skin Biopsy)
Purpose: Diagnoses small fiber nerve damage via epidermal nerve fiber density
CPT Codes: 88305, 88356
Lab: Therapath
Link: http://therapath.com/epidermal-nerve-fiber-density-test-biopsy-sites

Histamine Determination – Plasma
Purpose: Assesses histamine levels, relevant for histamine intolerance
CPT Code: 83088
Lab: Labcorp
Link: https://www.labcorp.com/tests/144600/histamine-determination-plasma

8-OHdG – Urine Oxidative Stress Test
Purpose: Measures DNA damage from oxidative stress
CPT Code: 82542
Lab: Doctor's Data
Link: https://www.doctorsdata.com/DNA-Oxidative-Damage-Assay-urine

Mitochondrial Antibody Screen with Reflex to Titer
Purpose: Evaluates mitochondrial dysfunction and autoimmunity
CPT Code: 86381
Availability: Available nationwide; ordering via Integrative, DO, or Functional medicine doctors

Drug Monitoring Panel (custom fluoroquinolone testing)
Purpose: Measures fluoroquinolone and other drug levels in serum/plasma
CPT Code: Varies by lab
Lab: specialty toxicology labs

MCAS (Mast Cell Activation Syndrome):

Tryptase – Serum
Purpose: Detects mast cell activation (best drawn within 1–4 hours of a flare)
CPT Code: 83520
Lab: LabCorp
Link: https://www.labcorp.com/tests/004280/tryptase

Histamine – Plasma
Purpose: Measures histamine released during mast cell degranulation; requires chilled processing
CPT Code: 83088
Lab: Quest Diagnostics
Link: https://testdirectory.questdiagnostics.com/test/test-detail/36586/histamine-plasma?p=r&q=83088&cc=MET

Chromogranin A
Purpose: General neuroendocrine marker, occasionally elevated in MCAS
CPT Code: 82397
Lab: Quest Diagnostics
Link: https://testdirectory.questdiagnostics.com/test/test-detail/31911/chromogranin-a-lcmsms?cc=MASTER

Heparin – Plasma (Specialty Lab Only)
Purpose: Indicates mast cell mediator release; rarely used but can be supportive
CPT Code: Varies by lab
Lab: Specialty immunology labs
Link: *must request via physician referral*

Therapath Neuropathology
Service: Specializes in neuropathology services, including skin biopsies for small fiber neuropathy and mast cell staining.
Location: Based in New York, but accepts samples from across the United States.
Contact: Details provided on their website

Mayo Clinic Laboratories
Website: https://www.mayocliniclabs.com/
Use their test catalog to search for CD117 staining services or contact them directly for more information

ARUP Laboratories
Website: https://www.aruplab.com
Explore their test offerings or reach out to inquire about CD117 staining

Other MCAS tests also available via Mayo Clinic

📌 **How to Find the Right Practitioner**

See our doctor's list: https://fq100.org/find-medical

IFM-certified functional medicine doctors: https://www.ifm.org/find-a-practitioner/

Environmental medicine specialists via AAEM: https://www.aaemonline.org

Genova Diagnostics Provider Locator: https://www.gdx.net/patients/patient-resources

Great Plains Laboratory (now MosaicDX): https://mosaicdx.com/find-a-practitioner/