

Urea Cycle Disorders Gene Panel, Varies

Reporting Title: Urea Cycle Disorders Gene Panel

Performing Location: Rochester

### **Ordering Guidance:**

The recommended first-tier biochemical tests to screen for urea cycle disorders are a combination of quantitative plasma amino acids and urinary orotic acid. Order AAQP / Amino Acids, Quantitative, Plasma and OROT / Orotic Acid, Random, Urine.

Customization of this panel and single gene analysis for any gene present on this panel is available. For more information see CGPH / Custom Gene Panel, Hereditary, Next-Generation Sequencing, Varies.

Targeted testing for familial variants (also called site-specific or known mutations testing) is available for the genes on this panel. See FMTT / Familial Variant, Targeted Testing, Varies. To obtain more information about this testing option, call 800-533-1710.

### **Shipping Instructions:**

Specimen preferred to arrive within 96 hours of collection.

### **Specimen Requirements:**

**Patient Preparation:** A previous bone marrow transplant from an allogenic donor will interfere with testing. For instructions for testing patients who have received a bone marrow transplant, call 800-533-1710.

#### Submit only 1 of the following specimens:

Specimen Type: Whole blood

Container/Tube: Lavender top (EDTA) or yellow top (ACD)

Specimen Volume: 3 mL Collection Instructions:

1. Invert several times to mix blood.

2. Send whole blood specimen in original tube. **Do not aliquot**.

Specimen Stability Information: Ambient (preferred) 4 days/Refrigerated 14 days

**Specimen Type:** Skin biopsy

Supplies: Fibroblast Biopsy Transport Media (T115)

**Container/Tube:** Sterile container with any standard cell culture media (eg, minimal essential media, RPMI 1640). The solution should be supplemented with 1% penicillin and streptomycin (Eagle's minimum essential medium with 1%

penicillin and streptomycin).

Specimen Volume: 4-mm punch

Specimen Stability Information: Refrigerated (preferred)/Ambient

Additional Information: A separate culture charge will be assessed under CULFB / Fibroblast Culture for Biochemical or

Molecular Testing. An additional 3 to 4 weeks is required to culture fibroblasts before genetic testing can occur.

Specimen Type: Cultured fibroblast

Container/Tube: T-25 flask Specimen Volume: 2 Flasks

Collection Instructions: Submit confluent cultured fibroblast cells from a skin biopsy from another laboratory. Cultured



Urea Cycle Disorders Gene Panel, Varies

cells from a prenatal specimen will not be accepted.

Specimen Stability Information: Ambient (preferred)/Refrigerated (<24 hours)

**Additional Information:** A separate culture charge will be assessed under CULFB / Fibroblast Culture for Biochemical or Molecular Testing. An additional 3 to 4 weeks is required to culture fibroblasts before genetic testing can occur.

Specimen Type: Blood spot

Supplies: Card-Blood Spot Collection (Filter Paper) (T493)

Container/Tube:

Preferred: Collection card (Whatman Protein Saver 903 Paper)

Acceptable: PerkinElmer 226 (formerly Ahlstrom 226) filter paper, or blood spot collection card

Specimen Volume: 5 Blood spots

**Collection Instructions:** 

- 1. An alternative blood collection option for a patient older than 1 year is a fingerstick. For detailed instructions, see How to Collect Dried Blood Spot Samples.
- 2. Let blood dry on the filter paper at ambient temperature in a horizontal position for a minimum of 3 hours.
- 3. Do not expose specimen to heat or direct sunlight.
- 4. Do not stack wet specimens.
- 5. Keep specimen dry.

Specimen Stability Information: Ambient (preferred)/Refrigerated

### **Additional Information:**

- 1. Due to lower concentration of DNA yielded from blood spot, it is possible that additional specimen may be required to complete testing.
- 2. For collection instructions, see <u>Blood Spot Collection Instructions</u>.
- 3. For collection instructions in Spanish, see Blood Spot Collection Card-Spanish Instructions (T777).
- 4. For collection instructions in Chinese, see <u>Blood Spot Collection Card-Chinese Instructions</u> (T800).

Specimen Type: Saliva

Patient Preparation: Patient should not eat, drink, smoke, or chew gum 30 minutes prior to collection.

**Supplies:** Saliva Swab Collection Kit (T786)

Specimen Volume: 1 Swab

**Collection Instructions:** Collect and send specimen per kit instructions.

Specimen Stability Information: Ambient 30 days

Additional Information: Due to lower concentration of DNA yielded from saliva, it is possible that additional specimen

may be required to complete testing.

#### Forms:

- 1. **New York Clients-Informed consent is required.** Document on the request form or electronic order that a copy is on file. The following documents are available:
- -Informed Consent for Genetic Testing (T576)
- -<u>Informed Consent for Genetic Testing (Spanish)</u> (T826)
- Molecular Genetics: Biochemical Disorders Patient Information (T527)

Specimen Type	Temperature	Time	Special Container
Varies	Varies		



Urea Cycle Disorders Gene Panel, Varies

# **Result Codes:**

Result ID	Reporting Name	Туре	Unit	LOINC®
608644	Test Description	Alphanumeric		62364-5
608645	Specimen	Alphanumeric		31208-2
608646	Source	Alphanumeric		31208-2
608647	Result Summary	Alphanumeric		50397-9
608648	Result	Alphanumeric		82939-0
608649	Interpretation	Alphanumeric		69047-9
608650	Resources	Alphanumeric		99622-3
608651	Additional Information	Alphanumeric		48767-8
608652	Method	Alphanumeric		85069-3
608653	Genes Analyzed	Alphanumeric		48018-6
608654	Disclaimer	Alphanumeric		62364-5
608655	Released By	Alphanumeric		18771-6

LOINC® and CPT codes are provided by the performing laboratory.

# **Supplemental Report:**

Supplemental

## **CPT Code Information:**

81443

88233-Tissue culture, skin, solid tissue biopsy (if appropriate)

88240-Cryopreservation (if appropriate)

# **Reflex Tests:**

Test Id	Reporting Name	CPT Units	CPT Code	Always Performed	Available Separately
CULFB	Fibroblast Culture for Genetic Test	1	88233	No	Yes

## **Result Codes for Reflex Tests:**

Test ID	Result ID	Reporting Name	Туре	Unit	LOINC®
CULFB	52327	Result Summary	Alphanumeric		50397-9
CULFB	52329	Interpretation	Alphanumeric		69965-2
CULFB	52328	Result	Alphanumeric		82939-0
CULFB	CG770	Reason for Referral	Alphanumeric		42349-1
CULFB	CG899	Specimen	Alphanumeric		31208-2
CULFB	52331	Source	Alphanumeric		31208-2
CULFB	52332	Method	Alphanumeric		85069-3
CULFB	54625	Additional Information	Alphanumeric		48767-8
CULFB	52333	Released By	Alphanumeric		18771-6



Urea Cycle Disorders Gene Panel, Varies

Reference Valu	ues	•
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An interpretive report will be provided.