
Reporting Title: Purines and Pyrimidines Panel, P
Performing Location: Rochester

Ordering Guidance:

The preferred test to rule-out inherited disorders of purine and pyrimidine metabolism is PUPYU / Purines and Pyrimidines Panel, Random, Urine.

This test does not evaluate succinyladenosine. If succinyladenosine analysis is needed, order PUPYU / Purines and Pyrimidines Panel, Random, Urine.

Necessary Information:

Patient's age is required.

Specimen Requirements:

Collection Container/Tube: Lavender top (EDTA)

Submission Container/Tube: Plastic vial

Specimen Volume: 0.5 mL

Collection Instructions:

1. Centrifuge at 4 degrees C and aliquot plasma into plastic vial.
2. Send plasma frozen.

Specimen Minimum Volume:

0.2 mL

Forms:

If not ordering electronically, complete, print, and send a Biochemical Genetics Test Request (T798) with the specimen.

| Specimen Type | Temperature | Time | Special Container |
|---------------|-------------|---------|-------------------|
| Plasma | Frozen | 90 days | |

Result Codes:

| Result ID | Reporting Name | Type | Unit | LOINC® |
|-----------|------------------------|--------------|------|---------|
| 92310 | Interpretation (PUPYP) | Alphanumeric | | 79659-9 |



| Result ID | Reporting Name | Type | Unit | LOINC® |
|-----------|------------------------------------|--------------|---------|---------|
| 92292 | Uracil | Numeric | nmol/mL | 75152-9 |
| 92293 | Thymine | Numeric | nmol/mL | 75121-4 |
| 606842 | Adenine | Numeric | nmol/mL | 75131-3 |
| 92294 | Hypoxanthine | Numeric | nmol/mL | 75135-4 |
| 92295 | Xanthine | Numeric | nmol/mL | 75144-6 |
| 92296 | Dihydroorotic | Numeric | nmol/mL | 79654-0 |
| 92297 | Uric Acid | Numeric | nmol/mL | 14933-6 |
| 92298 | Deoxythymidine | Numeric | nmol/mL | 48162-2 |
| 92299 | Deoxyuridine | Numeric | nmol/mL | 47957-6 |
| 92300 | Uridine | Numeric | nmol/mL | 75159-4 |
| 92301 | Deoxyinosine | Numeric | nmol/mL | 75127-1 |
| 92302 | Deoxyguanosine | Numeric | nmol/mL | 75134-7 |
| 92303 | Inosine | Numeric | nmol/mL | 75150-3 |
| 92304 | Guanosine | Numeric | nmol/mL | 79670-6 |
| 92305 | Dihydrouracil | Numeric | nmol/mL | 79682-1 |
| 92306 | Dihydrothymine | Numeric | nmol/mL | 79669-8 |
| 92307 | N-carbamoyl-B-alanine | Numeric | nmol/mL | 79656-5 |
| 92308 | N-carbamoyl-B-aminoisobutyric acid | Numeric | nmol/mL | 79582-3 |
| 92309 | Reviewed By | Alphanumeric | | 18771-6 |

LOINC and CPT codes are provided by the performing laboratory.

Supplemental Report:

No

CPT Code Information:

82542

Reference Values:

| Age range | 0-1 years | >1-4 years | 5-18 years | >18 years |
|--|-----------|------------|------------|-----------|
| Uracil | < or =2 | < or =2 | < or =2 | < or =2 |
| Thymine | < or =2 | < or =2 | < or =2 | < or =2 |
| Adenine | < or =3 | < or =3 | < or =3 | < or =3 |
| Hypoxanthine | < or =35 | < or =17 | < or =15 | < or =15 |
| Xanthine | < or =6 | < or =6 | < or =6 | < or =3 |
| Dihydroorotic | < or =2 | < or =2 | < or =2 | < or =2 |
| Uric Acid | 100-450 | 150-500 | 150-500 | 150-500 |
| Deoxythymidine | < or =2 | < or =2 | < or =2 | < or =2 |
| Deoxyuridine | < or =2 | < or =2 | < or =2 | < or =2 |
| Uridine | < or =14 | < or =9 | < or =9 | < or =9 |
| Deoxyinosine | < or =2 | < or =2 | < or =2 | < or =2 |
| Deoxyguanosine | < or =2 | < or =2 | < or =2 | < or =2 |
| Inosine | < or =2 | < or =2 | < or =2 | < or =2 |
| Guanosine | < or =2 | < or =2 | < or =2 | < or =2 |
| Dihydrouracil | < or =3 | < or =3 | < or =3 | < or =3 |
| Dihydrothymine | < or =2 | < or =2 | < or =2 | < or =2 |
| N-carbamoyl- beta-alanine | < or =2 | < or =2 | < or =2 | < or =2 |
| N-carbamoyl- beta-aminoisobutyric acid | < or =2 | < or =2 | < or =2 | < or =2 |

All results reported as nmol/mL