

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

Ordering Guidance:

This is recommended screening test for the initial workup of a suspected disorder of purine and pyrimidine metabolism, particularly when clinical features are nonspecific, and includes measurement of purines, pyrimidines, uric acid, and S-sulfocysteine. If the clinical features are suggestive of molybdenum cofactor deficiency, isolated sulfite oxidase deficiency, and hereditary xanthinuria, order SSCTU / S-Sulfocysteine Panel, Urine.

If this test is ordered with SSCTU, then SSCTU will be canceled.

Necessary Information:

Patient's age is required.

Specimen Requirements:

Supplies: Urine Tubes, 10 mL (T068)

Container/Tube: Plastic, 10-mL urine tube

Specimen Volume: 3 mL

Collection Instructions: Collect a random urine specimen.

Forms:

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

Specimen Type	Temperature	Time	Special Container
Urine	Frozen	90 days	

Result Codes:

Result ID	Reporting Name	Type	Unit	LOINC®
42201	Interpretation (PUPYU)	Alphanumeric		79677-1
41978	Uracil	Alphanumeric	mmol/mol Cr	25140-5
38249	Thymine	Alphanumeric	mmol/mol Cr	48157-2
38239	Adenine	Alphanumeric	mmol/mol Cr	59203-0
41980	Hypoxanthine	Alphanumeric	mmol/mol Cr	38366-1
41981	Xanthine	Alphanumeric	mmol/mol Cr	38371-1
38246	Orotic Acid	Alphanumeric	mmol/mol Cr	17869-9
38251	Dihydroorotic	Alphanumeric	mmol/mol Cr	78694-7
41979	Uric Acid	Alphanumeric	mmol/mol Cr	34385-5
38252	Deoxythymidine	Alphanumeric	mmol/mol Cr	59215-4
38253	Deoxyuridine	Alphanumeric	mmol/mol Cr	59193-3
38248	Thymidine	Alphanumeric	mmol/mol Cr	59215-4
38250	Uridine	Alphanumeric	mmol/mol Cr	59216-2
38241	Deoxyadenosine	Alphanumeric	mmol/mol Cr	59199-0
38243	Deoxyinosine	Alphanumeric	mmol/mol Cr	59202-2

38242	Deoxyguanosine	Alphanumeric	mmol/mol Cr	59201-4
38245	Inosine	Alphanumeric	mmol/mol Cr	59210-5
38244	Guanosine	Alphanumeric	mmol/mol Cr	78691-3
38254	AICAR	Alphanumeric	mmol/mol Cr	75151-1
38247	Succinyladenosine	Alphanumeric	mmol/mol Cr	59214-7
38255	Dihydrouracil	Alphanumeric	mmol/mol Cr	79685-4
38256	Dihydrothymine	Alphanumeric	mmol/mol Cr	78693-9
38257	N-carbamoyl-beta-alanine	Alphanumeric	mmol/mol Cr	59251-9
38258	N-carbamoyl-beta-aminoisobutyric Acid	Alphanumeric	mmol/mol Cr	79647-4
42200	Reviewed By	Alphanumeric		18771-6
38240	Adenosine	Alphanumeric	mmol/mol Cr	75160-2
606745	S-Sulfocysteine	Alphanumeric	mmol/mol Cr	33876-4

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

Supplemental Report:

No

CPT Code Information:

82542

Reference Values:

Age range	0-3 years	4-6 years	7-12 years	13-18 years	>18 years
Uracil	< or =50	< or =30	< or =25	< or =20	< or =20
Thymine	< or =3	< or =3	< or =3	< or =3	< or =3
Adenine	< or =3	< or =3	< or =3	< or =3	< or =3
Hypoxanthine	< or =65	< or =30	< or =30	< or =30	< or =30
Xanthine	< or =54	< or =21	< or =35	< or =15	< or =20
Orotic	< or =4	< or =4	< or =3	< or =3	< or =5
Dihydroorotic acid	< or =3	< or =3	< or =3	< or =3	< or =3
Uric Acid	350-2500	200-2000	200-1400	150-700	70-700
Deoxythymidine	< or =3	< or =3	< or =3	< or =3	< or =3
Deoxyuridine	< or =3	< or =3	< or =3	< or =3	< or =3
Thymidine	< or =3	< or =3	< or =3	< or =3	< or =3
Uridine	< or =10	< or =3	< or =3	< or =3	< or =3
Deoxyadenosine	< or =3	< or =3	< or =3	< or =3	< or =3
Deoxyinosine	< or =3	< or =3	< or =3	< or =3	< or =3
Deoxyguanosine	< or =3	< or =3	< or =3	< or =3	< or =3
Adenosine	< or =3	< or =3	< or =3	< or =3	< or =3
Inosine	< or =6	< or =3	< or =3	< or =3	< or =3
Guanosine	< or =4	< or =3	< or =3	< or =3	< or =3
5-Aminoimidazole-4-carbo	< or =3	< or =3	< or =3	< or =3	< or =3

xamide 1-beta-D-ribofuranoside (AICAR)					
Succinyladenosine	< or =16	< or =3	< or =3	< or =3	< or =3
S-Sulfocysteine	< or =11	< or =5	< or =5	< or =5	< or =5
Dihydrouracil	< or =15	< or =6	< or =6	< or =6	< or =6
Dihydrothymine	< or =11	< or =3	< or =3	< or =3	< or =3
N-Carbamoyl-B-alanine	< or =30	< or =10	< or =10	< or =10	< or =10
N-Carbamoyl-B-aminoisob utyric acid	< or =20	< or =3	< or =3	< or =3	< or =3

All results reported as mmol/mol creatinine