

Reporting Title: CSM Targeted Drug Profile,17,HRMS,U
Performing Location: Mayo Clinic Laboratories - Rochester Superior Drive

Ordering Guidance:
This test does not screen for drug classes other than those listed in Reference Values.

Specimen Requirements:
Supplies: Urine Tubes, 10 mL (T068)
Collection Container/Tube: Plastic urine container
Submission Container/Tube: Plastic, 10 mL tube
Specimen Volume: 5 mL
Collection Instructions:

- 1. Collect a random urine specimen.
- 2. Submit 5 mL in 1 plastic bottle.
- 3. No preservative

Additional Information:
1. No specimen substitutions.
2. Submitting less than 5 mL may compromise the ability to perform all necessary testing.
3. STAT requests are **not accepted** for this test.

Forms:
If not ordering electronically, complete, print, and send a [Therapeutics Test Request](#) (T831) with the specimen.

Specimen Type	Temperature	Time	Special Container
Urine	Refrigerated (preferred)	14 days	
	Frozen	14 days	

Ask at Order Entry (AOE) Questions:

Test ID	Question ID	Description	Type	Reportable
LPCM	LPCM	List patient's current medications	Plain Text	Yes

Result Codes:

Result ID	Reporting Name	Type	Unit	LOINC®
20606	Creatinine, U	Numeric	mg/dL	2161-8
22312	Specific Gravity	Numeric		In Process
23509	pH	Numeric		2756-5
23511	Oxidants	Alphanumeric		58714-7
23510	Nitrites	Alphanumeric		32710-6
30914	Comment	Alphanumeric		48767-8
42323	Codeine	Alphanumeric	ng/mL	19411-8

Test Definition: CSMTU

Controlled Substance Monitoring Targeted
Profile, 17 Drug Classes, Mass Spectrometry,
Random, Urine

42324	Codeine-6-beta-glucuronide	Alphanumeric	ng/mL	89310-7
42325	Morphine	Alphanumeric	ng/mL	19597-4
42326	Morphine-6-beta-glucuronide	Alphanumeric	ng/mL	89308-1
42327	6-monoacetylmorphine	Alphanumeric	ng/mL	19321-9
42328	Hydrocodone	Alphanumeric	ng/mL	19482-9
42329	Norhydrocodone	Alphanumeric	ng/mL	89304-0
42330	Dihydrocodeine	Alphanumeric	ng/mL	19446-4
42331	Hydromorphone	Alphanumeric	ng/mL	19486-0
42332	Hydromorphone-3-beta-glucuronide	Alphanumeric	ng/mL	89309-9
42333	Oxycodone	Alphanumeric	ng/mL	19642-8
42334	Noroxycodone	Alphanumeric	ng/mL	89303-2
42335	Oxymorphone	Alphanumeric	ng/mL	19646-9
42336	Oxymorphone-3-beta-glucuronide	Alphanumeric	ng/mL	89301-6
42337	Noroxymorphone	Alphanumeric	ng/mL	89302-4
42338	Fentanyl	Alphanumeric	ng/mL	59673-4
42339	Norfentanyl	Alphanumeric	ng/mL	43199-9
42340	Meperidine	Alphanumeric	ng/mL	19532-1
42341	Normeperidine	Alphanumeric	ng/mL	27920-8
42342	Naloxone	Alphanumeric	ng/mL	42618-9
42343	Naloxone-3-beta-glucuronide	Alphanumeric	ng/mL	89307-3
42344	Methadone	Alphanumeric	ng/mL	19550-3
42345	EDDP	Alphanumeric	ng/mL	93495-0
42346	Propoxyphene	Alphanumeric	ng/mL	19429-0
42347	Norpropoxyphene	Alphanumeric	ng/mL	19632-9
42348	Tramadol	Alphanumeric	ng/mL	19710-3
42349	O-desmethyiltramadol	Alphanumeric	ng/mL	86453-8
42350	Tapentadol	Alphanumeric	ng/mL	72485-6
42351	N-desmethyltapentadol	Alphanumeric	ng/mL	89306-5
42352	Tapentadol-beta-glucuronide	Alphanumeric	ng/mL	89300-8
42353	Buprenorphine	Alphanumeric	ng/mL	93494-3
42354	Norbuprenorphine	Alphanumeric	ng/mL	82371-6
42355	Norbuprenorphine glucuronide	Alphanumeric	ng/mL	89305-7
65059	Opioid Interpretation	Alphanumeric		69050-3
604871	Alprazolam	Alphanumeric	ng/mL	94116-1
604867	Alpha-Hydroxyalprazolam	Alphanumeric	ng/mL	19325-0
604891	Alpha-Hydroxyalprazolam Glucuronide	Alphanumeric	ng/mL	94115-3
604872	Chlordiazepoxide	Alphanumeric	ng/mL	19385-4
604889	Clobazam	Alphanumeric	ng/mL	94114-6
604890	N-Desmethyloclobazam	Alphanumeric	ng/mL	94113-8
604873	Clonazepam	Alphanumeric	ng/mL	19399-5
604267	7-aminoclonazepam	Alphanumeric	ng/mL	94112-0

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604874	Diazepam	Alphanumeric	ng/mL	19443-1
604880	Nordiazepam	Alphanumeric	ng/mL	19624-6
604875	Flunitrazepam	Alphanumeric	ng/mL	19466-2
604866	7-aminoflunitrazepam	Alphanumeric	ng/mL	94111-2
604876	Flurazepam	Alphanumeric	ng/mL	19474-6
604868	2-Hydroxy Ethyl Flurazepam	Alphanumeric	ng/mL	94110-4
604877	Lorazepam	Alphanumeric	ng/mL	19520-6
604878	Lorazepam Glucuronide	Alphanumeric	ng/mL	94109-6
604879	Midazolam	Alphanumeric	ng/mL	19585-9
604869	Alpha-Hydroxy Midazolam	Alphanumeric	ng/mL	94108-8
604881	Oxazepam	Alphanumeric	ng/mL	19638-6
604882	Oxazepam Glucuronide	Alphanumeric	ng/mL	94107-0
604883	Prazepam	Alphanumeric	ng/mL	19678-2
604884	Temazepam	Alphanumeric	ng/mL	19698-0
604885	Temazepam Glucuronide	Alphanumeric	ng/mL	94106-2
604886	Triazolam	Alphanumeric	ng/mL	19714-5
604870	Alpha-Hydroxy Triazolam	Alphanumeric	ng/mL	94105-4
604887	Zolpidem	Alphanumeric	ng/mL	94104-7
604888	Zolpidem Phenyl-4-Carboxylic acid	Alphanumeric	ng/mL	94103-9
604949	Benzodiazepine Interpretation	Alphanumeric		69050-3
LPCM	List Patient's Current Medications	Alphanumeric		66423-5
610273	Methamphetamine	Alphanumeric	ng/mL	19554-5
610274	Amphetamine	Alphanumeric	ng/mL	19343-3
610275	3,4-methylenedioxymethamphetamine (MDMA)	Alphanumeric	ng/mL	19568-5
610276	3,4-methylenedioxy-N-ethylamphetamine (MDEA)	Alphanumeric	ng/mL	59844-1
610277	3,4-methylenedioxyamphetamine (MDA)	Alphanumeric	ng/mL	19565-1
610278	Ephedrine	Alphanumeric	ng/mL	99108-3
610279	Pseudoephedrine	Alphanumeric	ng/mL	99109-1
610280	Phentermine	Alphanumeric	ng/mL	19674-1
610281	Phencyclidine (PCP)	Alphanumeric	ng/mL	19659-2
610282	Methylphenidate	Alphanumeric	ng/mL	19577-6
610283	Ritalinic acid	Alphanumeric	ng/mL	99110-9
610284	Stimulant Interpretation	Alphanumeric		54247-2

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

Supplemental Report:

No

Components:

Test Id	Reporting Name	CPT Units	CPT Code	Always Performed	Available Separately
LPCM	List Patient's Current Medications			Yes	No
ADULT	Adulterants Survey, U			Yes	Yes
TOPSU	Targeted Opioid Screen, U	1	80364	Yes	Yes, (order TOSU)
TABSU	Targeted Benzodiazepine Screen, U	1	80347	Yes	Yes, (order TBSU)
TSTIM	Targeted Stimulant Screen, U	1	80326	Yes	Yes, (order TSPU)

CPT Code Information:

G0482
80347 (if appropriate for select payers)
80364 (if appropriate for select payers)
80326 (if appropriate for select payers)
[Clinical Toxicology CPT Code Client Guidance](#)

Reference Values:

ADULTERANT SURVEY:
Cutoff concentrations
Oxidants: 200 mg/L
Nitrites: 500 mg/L

TARGETED OPIOID SCREEN:
Not detected (Positive results are reported with qualitative "Present" results)

Cutoff concentrations:
Codeine: 25 ng/mL
Codeine-6-beta-glucuronide: 100 ng/mL
Morphine: 25 ng/mL
Morphine-6-beta-glucuronide: 100 ng/mL
6-Monoacetylmorphine: 25 ng/mL
Hydrocodone: 25 ng/mL
Norhydrocodone: 25 ng/mL
Dihydrocodeine: 25 ng/mL
Hydromorphone: 25 ng/mL
Hydromorphone-3-beta-glucuronide: 100 ng/mL
Oxycodone: 25 ng/mL
Noroxycodone: 25 ng/mL
Oxymorphone: 25 ng/mL
Oxymorphone-3-beta-glucuronide: 100 ng/mL
Noroxymorphone: 25 ng/mL
Fentanyl: 2 ng/mL
Norfentanyl: 2 ng/mL
Meperidine: 25 ng/mL

Normeperidine: 25 ng/mL
Naloxone: 25 ng/mL
Naloxone-3-beta-glucuronide: 100 ng/mL
Methadone: 25 ng/mL
2-Ethylidene-1,5-dimethyl-3,3-diphenylpyrrolidine (EDDP): 25 ng/mL
Propoxyphene: 25 ng/mL
Norpropoxyphene: 25 ng/mL
Tramadol: 25 ng/mL
O-desmethyiltramadol: 25 ng/mL
Tapentadol: 25 ng/mL
N-desmethyltapentadol: 50 ng/mL
Tapentadol-beta-glucuronide: 100 ng/mL
Buprenorphine: 5 ng/mL
Norbuprenorphine: 5 ng/mL
Norbuprenorphine glucuronide: 20 ng/mL

TARGETED BENZODIAZEPINE SCREEN:

Not detected (Positive results are reported with qualitative "Present" results)

Cutoff concentrations:

Alprazolam: 10 ng/mL
Alpha-hydroxyalprazolam: 10 ng/mL
Alpha-hydroxyalprazolam glucuronide: 50 ng/mL
Chlordiazepoxide: 10 ng/mL
Clobazam: 10 ng/mL
N-desmethyloclobazam: 200 ng/mL
Clonazepam: 10 ng/mL
7-Aminoclonazepam: 10 ng/mL
Diazepam: 10 ng/mL
Nordiazepam: 10 ng/mL
Flunitrazepam: 10 ng/mL
7-Aminoflunitrazepam: 10 ng/mL
Flurazepam: 10 ng/mL
2-Hydroxy ethyl flurazepam: 10 ng/mL
Lorazepam: 10 ng/mL
Lorazepam glucuronide: 50 ng/mL
Midazolam: 10 ng/mL
Alpha-hydroxymidazolam: 10 ng/mL
Oxazepam: 10 ng/mL
Oxazepam glucuronide: 50 ng/mL
Prazepam: 10 ng/mL
Temazepam: 10 ng/mL
Temazepam glucuronide: 50 ng/mL

Triazolam: 10 ng/mL
Alpha-hydroxytriazolam: 10 ng/mL
Zolpidem: 10 ng/mL
Zolpidem phenyl-4-carboxylic acid: 10 ng/mL

TARGETED STIMULANT SCREEN:
Not detected (Positive results are reported with qualitative "Present" results)

Cutoff concentrations:
Methamphetamine: 100 ng/mL
Amphetamine: 100 ng/mL
3,4-Methylenedioxymethamphetamine (MDMA): 100 ng/mL
3,4-Methylenedioxy-N-ethylamphetamine (MDEA): 100 ng/mL
3,4-Methylenedioxyamphetamine (MDA): 100 ng/mL
Ephedrine: 100 ng/mL
Pseudoephedrine: 100 ng/mL
Phentermine: 100 ng/mL
Phencyclidine (PCP): 20 ng/mL
Methylphenidate: 20 ng/mL
Ritalinic acid: 100 ng/mL