

Test Definition: CSMEU

Controlled Substance Monitoring Enhanced
Profile with Reflex, 21 Drug Classes, High
Resolution Mass Spectrometry and
Immunoassay Screen, Random, Urine

Reporting Title: CSM Enhanced Profile,21, HRMS/IA, U
Performing Location: Rochester

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

Specimen Requirements:
Supplies: Urine Container, 60 mL (T313)
Collection Container/Tube: Plastic urine container
Submission Container/Tube: Plastic, 60 mL urine container
Specimen Volume: 30 mL

- Collection Instructions:**
1. Collect a random urine specimen.
 2. Submit 30 mL in 1 plastic bottle.
 3. No preservative.

- Additional Information:**
1. No specimen substitutions.
 2. Submitting less than 30 mL may compromise the ability to perform all necessary testing.
 3. STAT requests are **not accepted** for this procedure.

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		5810-7
23509	pH	Numeric		2756-5
23511	Oxidants	Alphanumeric		58714-7
23510	Nitrites	Alphanumeric		32710-6

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30914	Comment	Alphanumeric		48767-8
42323	Codeine	Alphanumeric	ng/mL	19411-8
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-desmethyltramadol	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
2574	Barbiturates	Alphanumeric	ng/mL	70155-7
21652	Cocaine	Alphanumeric	ng/mL	19359-9
2664	Tetrahydrocannabinol	Alphanumeric	ng/mL	19415-9
604871	Alprazolam	Alphanumeric	ng/mL	94116-1
604867	Alpha-Hydroxyalprazolam	Alphanumeric	ng/mL	19325-0

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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-Desmethyclobazam	Alphanumeric	ng/mL	94113-8
604873	Clonazepam	Alphanumeric	ng/mL	19399-5
604267	7-aminoclonazepam	Alphanumeric	ng/mL	94112-0
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
616033	Ethyl Glucuronide Screen, U	Alphanumeric	ng/mL	58375-7

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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	1	81005	Yes	Yes
PNRCH	Drug Immunoassay Panel, U	1	80307	Yes	No
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)
ETGSR	Ethyl Glucuronide Scrn w/Reflex, U	1	80307	Yes	No

CPT Code Information:

80307
80347
80364
80326
G0482 (if appropriate)

Reflex Tests:

Test Id	Reporting Name	CPT Units	CPT Code	Always Performed	Available Separately
COKEU	Cocaine and metabolite Conf, U	1	80353	No	Yes
BARBU	Barbiturates Confirmation, U	1	80345	No	Yes
THCU	Carboxy-THC Confirmation, U	1	80349	No	Yes
ETGC	Ethyl Glucuronide Confirmation, U	1	80321	No	Yes

Result Codes for Reflex Tests:

Test ID	Result ID	Reporting Name	Type	Unit	LOINC®
BARBU	21442	Butalbital-by GC/MS	Alphanumeric	ng/mL	16237-0
BARBU	20642	Amobarbital-by GC/MS	Alphanumeric	ng/mL	16239-6
BARBU	20643	Pentobarbital-by GC/MS	Alphanumeric	ng/mL	16240-4
BARBU	20644	Secobarbital-by GC/MS	Alphanumeric	ng/mL	16238-8
BARBU	20645	Phenobarbital-by GC/MS	Alphanumeric	ng/mL	16241-2

BARBU	20651	Barbiturates Interpretation	Alphanumeric		69050-3
BARBU	20647	Chain of Custody	Alphanumeric		77202-0
COKEU	2922	Cocaine-by GC/MS	Alphanumeric	ng/mL	20519-5
COKEU	2902	Benzoylcegonine-by GC/MS	Alphanumeric	ng/mL	16226-3
COKEU	20671	Cocaine Interpretation	Alphanumeric		69050-3
COKEU	28080	Chain of Custody	Alphanumeric		77202-0
THCU	2497	Delta-9 Carboxy-Tetrahydrocannabinol by LC-MS/MS	Alphanumeric	ng/mL	20521-1
THCU	21186	Carboxy-THC Interpretation	Alphanumeric		69050-3
THCU	618770	Delta-8 Carboxy-Tetrahydrocannabinol by LC-MS/MS	Alphanumeric	ng/mL	20521-1
ETGC	63421	Ethyl Glucuronide	Alphanumeric	ng/mL	58378-1
ETGC	36848	Ethyl Sulfate	Alphanumeric	ng/mL	58425-0
ETGC	36849	Ethyl Gluc/Sulfate Interpretation	Alphanumeric		69050-3

Reference Values:

ADULTERANT SURVEY:

Cutoff concentrations

Oxidants: 200 mg/L

Nitrites: 500 mg/L

DRUG IMMUNOASSAY PANEL:

Negative

Screening cutoff concentrations:

Barbiturates: 200 ng/mL

Cocaine (benzoylcegonine-cocaine metabolite): 150 ng/mL

Tetrahydrocannabinol carboxylic acid: 50 ng/mL

This report is intended for use in clinical monitoring or management of patients. It is not intended for use in employment-related testing.

TARGETED OPIOID SCREEN:

Not Detected

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
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

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-Hydroxy Midazolam: 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-Hydroxy Triazolam: 10 ng/mL
Zolpidem: 10 ng/mL
Zolpidem Phenyl-4-Carboxylic acid: 10 ng/mL

TARGETED STIMULANT SCREEN:
Not Detected

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

ETHYL GLUCURONIDE SCREEN:
Negative

Screening cutoff concentrations:
Ethyl Glucuronide: 500 ng/mL