

## Laboratory Services

**Admission Lab Panel** should be obtained for all new clients who have not had the lab work within the last six months, who have had a recent medical change, or as clinically indicated. It may be obtained by BHRS providers or other treating providers.

1. **Complete Blood Count (CBC)**  
Includes differential and platelet count.
2. **Comprehensive Metabolic Panel (CMP) -- Fasting**  
Includes albumin, alkaline phosphatase, ALT/AST, BUN, calcium, CO2, chloride, creatinine, globulin, glucose, potassium, sodium, total bilirubin, total protein, A/G ratio, BUN/creatinine ratio.
3. **Fasting Lipid Panel**
4. **HbA1c**
5. **EIA for syphilis**
6. **TSH with reflex T4.**
7. **Urinalysis**
8. **Pregnancy test in women of childbearing age.**
9. **Urine toxicology screen, choose one of the following:**
  - 794370 -- 9 Drug Urine Screen
  - 789120 -- 10 Drug plus Alc-Bundle
  - 790600 ToxAssure Comprehensive 26 drug classes\*
  - 738526 ToxAssure Select 13 drug classes\*

Test: 789120 -- 10 Drug plus Alc-Bundle	Test 794370 -- 9 Drug Urine Screen
Amphetamine screen (does not test for methylphenidate)	Amphetamines (same as 789210)
Barbiturates	Barbiturates
Benzodiazepines (only tests for nordiazepam, alprazolam and oxazepam, <b>DOES NOT</b> test for lorazepam or clonazepam)	Benzodiazepines (same as 789120)
Cannabinoid	Cannabinoid
Cocaine metabolite	Cocaine Metabolite
Phencyclidine	Phencyclidine
Propoxyphene	Propoxyphene
Methadone Screen	Methadone
Other opiates (Tests for codeine and morphine at the 2,000 ng/ml level. If positive, will automatically screen 6-Acetyl Morphine which if positive would indicate heroin use. <b>DOES NOT</b> test for other pain meds such as hydrocodone, hydromorphone, oxycodone or oxymorphone)	Other opiates: ( Tests for Codeine/morphine at the 300 ng/ml level. No REFLEX testing for 6-Acetyl Morphine. <b>DOES NOT</b> test for hydrocodone, dhydromorphone, oxycodone or oxymorphone)
Methaqualone	
Ethanol	

\*For details see LabCorp ToxAssure Analytes List in the Appendix

**Annual lab panel** for on-going monitoring:

- **Complete Blood Count (CBC)**
- **Comprehensive Metabolic Panel (CMP) -- Fasting**
- **Fasting Lipid Panel**

**Additional lab panel** available for on-going monitoring:

- **Hepatic Function Panel**  
Includes: Albumin, alkaline phosphatase, ALT/AST, bilirubin total, bilirubin direct, globulin, total protein, A/G ratio.
- **Renal Function Panel**  
Includes: Albumin, BUN, calcium, CO<sub>2</sub>, chloride, creatinine, glucose, phosphorus, potassium, sodium, BUN/creatinine ratio.

## Antipsychotics -- All

Test	Baseline	Weekly	Monthly	At 3 months	Annually	As clinically indicated
AIMS	X				X	
ANC	Clozapine <sup>2</sup>	Clozapine <sup>2</sup>	Clozapine <sup>2</sup>			
Blood Pressure	X			X	X	
CBC w/ platelets	X				X	
Drug Concentration						X
EKG	X <sup>1</sup>					X
Fasting Glucose <sup>3</sup>	X			X	X	
Fasting Lipids	X			X	X	
CMP	X				X	
Prolactin						X
Weight (Optional: BMI or Waist Circum.)	X		First 6 months	Quarterly	X	

<sup>1</sup>Baseline EKG is recommended before starting drugs at high risk for QTc prolongation, such as chlorpromazine, haloperidol, and thioridazine. If baseline EKG indicates a QTc greater than 450 msec, the above medications are generally contraindicated. May consider baseline EKG when using combination of drugs with possible QTc prolongation risk. Reference: <https://www.crediblemeds.org/new-drug-list/>

<sup>2</sup>For Clozapine, weekly ANC monitoring for the initial 6 months, then biweekly for another 6 months; and if stable, monthly thereafter.

<sup>3</sup>HbA1c may be considered when known glucose impairment is present.

### Mood Stabilizers – Carbamazepine

Test	Baseline	Within 2 weeks	Within 1-3 months	Within 6-12 months	Annually	As clinically indicated
HLA-B 1502 <sup>1</sup>	X					
CBC w/ platelets	X	X	X	X	X	
Drug Concentration <sup>2</sup>		X	X	X	X	
CMP	X	X	X	X	X	
Fasting Lipids	X				X	
Weight (Optional: BMI or Waist Circum.)	X				X	X

<sup>1</sup> HLA-B testing recommended for Asian clients, see Carbamazepine Memo on SMCHHealth.org

<sup>2</sup> If new to Carbamazepine, check serum levels after 1 week of target dose, and after 6 weeks to assess need for higher dose due to auto-induction.

### Mood Stabilizers – Lithium

Test	Baseline	Within 2 weeks	Within 3-6 months	Annually	As clinically indicated
CBC w/ platelets	X		X	X	
Drug Concentration		X	X	X	
EKG	X <sup>1</sup>				X
CMP	X		X	X	
Fasting Lipids	X			X	
Thyroid Function	X	X		X	
Urine Analysis	X		X		X
Weight (Optional: BMI or Waist Circum.)	X				X

<sup>1</sup> Baseline EKG recommended for clients 40 yrs of age or older, or with preexisting cardiac conditions.

**Mood Stabilizers – Valproic Acid**

Test	Baseline	Within 1-3 months	Within 6-12 months	Annually	As clinically indicated
CBC w/ platelets	X	X	X	X	
Drug Concentration		X	X	X	
CMP	X	X	X	X	
Fasting Lipids	X			X	
Prothrombin time					X
Amylase					X
Weight (Optional: BMI or Waist Circum.)	X			X	X

**Other Mood Stabilizers:** Baseline standard lab panel and Annual CBC, CMP, Fasting Lipids.

### Antidepressants – SSRIs & SNRIs

Test	Baseline	Annually	As clinically indicated
Blood Pressure	X <sup>1</sup>	X <sup>1</sup>	
CBC	X	X	
CMP	X	X	
EKG <sup>2</sup>			X
Fasting Lipids	X	X	
Weight (Optional: BMI or Waist Circum.)	X	X	

<sup>1</sup>For Venlafaxine only.

<sup>2</sup> Citalopram???

### Antidepressants – TCAs

Test	Baseline	Annually	As clinically indicated
CBC	X	X	
Drug level			X
CMP		X	
EKG <sup>1</sup>	X		X
Fasting Lipids	X	X	
Weight (Optional: BMI or Waist Circum.)	X	X	

<sup>1</sup>Baseline EKG recommended for clients 40 yrs of age or older, or with preexisting cardiac conditions.

**Other Antidepressants:** Baseline standard lab panel and Annual CBC, CMP, Fasting Lipids.

**Appendix**  
**LabCorp ToxAssure Comprehensive (790600) and Select (738526) Analytes List**

Analytes included in ToxAssure Comprehensive 790600	ToxAssure Select 738526
creatinine/specimen validity	x
<b>ALCOHOL</b>	x
ethyl alcohol	x
<b>AMPHETAMINES</b>	x
methamphetamine	x
amphetamine	x
methylenedioxyamphetamine	x
methylenedioxyamphetamine	x
<b>BENZODIAZEPINES</b>	x
alprazolam	x
alpha-hydroxyalprazolam	x
clonazepam	x
7-aminoclonazepam	x
desalkylflurazepam	x
diazepam	x
desmethyldiazepam	x
lorazepam	x
midazolam	x
oxazepam	x
temazepam	x
alpha-hydroxytriazolam	x
<b>COCAINE &amp; METABOLITES</b>	x
cocaine	x
benzoylecgonine	x
cocaethylene	x
<b>CANNABINOIDS</b>	x
carboxy-THC	x
<b>OPIATE CLASS</b>	x
codeine	x
morphine	x
norcodeine	x
hydrocodone	x
hydromorphone	x
dihydrocodeine	x
norhydrocodone	x
6-AM (as reflex if needed)	x
<b>OXYCODONE CLASS</b>	x
oxycodone	x

Analytes included in ToxAssure Comprehensive 790600	ToxAssure Select 738526
oxymorphone	X
noroxycodone	X
noroxymorphone	X
<b>METHADONE</b>	X
methadone	X
EDDP	X
<b>FENTANYL AND ANALOGUES</b>	X
fentanyl	X
norfentanyl	X
sufentanil	X
alfentanil	X
<b>BUPRENORPHINE</b>	X
buprenorphine	X
norbuprenorphine	X
<b>TAPENTADOL</b>	X
tapentadol	X
<b>TRAMADOL</b>	X
0-desmethyltramadol	X
N-desmethyltramadol	X
<b>BARBITURATES</b>	X
amobarbital	X
barbital	X
butobarbital	X
butalbital	X
mephobarbital	X
pentobarbital	X
phenobarbital	X
secobarbital	X
thiopental	X
<b>OTHER OPIOIDS</b>	
naltrexone	
nalbuphine	
butorphanol	
meperidine	
normeperidine	
pentazocine	
propoxyphene	
norpropoxyphene	

Analytes included in ToxAssure Comprehensive 790600	ToxAssure Select 738526
<b>OTHER HALLUCINOGENS</b>	
ketamine	
phencyclidine	
<b>ANTICONVULSANTS</b>	
carbamazepine	
clobazam	
ezogabine	
gabapentin	
pregabalin	
levetiracetam	
oxcarbazepine MHD	
phenytoin	
primidone	
rufinamide	
tiagabine	
topiramate	
zonisamide	
lamotrigine	
<b>MUSCLE RELAXANTS</b>	
baclofen	
carisoprodol	
meprobamate	
cyclobenzaprine	
tizanidine	
metaxolone	
methocarbamol	
orphenadrine	
<b>OTHER SEDATIVE/HYPNOTICS</b>	
zolpidem	
zopiclone/eszopiclone	
zaleplon	
<b>ANTIDEPRESSANTS</b>	
amitriptyline	
amoxapine	
8-hydroxyamoxapine	
bupropion	
citalopram	
desmethylcitalopram	

**Appendix  
LabCorp ToxAssure Comprehensive (790600) and Select (738526) Analytes List**

Analytes included in ToxAssure Comprehensive 790600	ToxAssure Select 738526
clomipramine	
desmethylclomipramine	
desipramine	
doxepin	
desmethyldoxepin	
duloxetine	
fluoxetine	
norfluoxetine	
fluvoxamine	
imipramine	
mirtazapine	
nortriptyline	
paroxetine	
protriptyline	
sertraline	
desmethylsertraline	
maprotiline	
nefazodone	
trazodone	
1,3 chlorphenylpiperazine	
trimipramine	
venlafaxine	
norvenlafaxine	
vilazodone	
<b>ANTIPSYCHOTICS</b>	
chlorpromazine	
clozapine	
desmethylclozapine	
loxapine	
8-hydroxyloxapine	
mesoridazine	
olanzapine	
quetiapine	
risperidone	
fluphenazine	
haloperidol	
thioridazine	
molindone	

Analytes included in ToxAssure Comprehensive 790600	ToxAssure Select 738526
pimozide	
prochlorperazine	
thiothixene	
trifluoperazine	
ziprasidone	
perphenazine	
aripiprazole	
<b>ANALGESICS/NSAIDS</b>	
acetaminophen	
salicylate	
diclofenac	
ibuprofen	
ketoprofen	
naproxen	
oxaprozin	
<b>ANTIHISTAMINES</b>	
brompheniramine	
chlorpheniramine	
diphenhydramine	
doxylamine	
hydroxyzine	
promethazine	
pyrilamine	
triprolidine	
<b>LOCAL ANESTHETICS</b>	
bupivacaine	
lidocaine	
mepivacaine	
procaine	
<b>MISCELLANEOUS</b>	
atenolol	
benztropine	
caffeine	
clonidine	
dextromethorphan	
dextrorphan/levorphanol	
diltiazem	
guaifenesin	

Analytes included in ToxAssure Comprehensive 790600	ToxAssure Select 738526
metoprolol	
milnacipran	
propranolol	
theophylline	
verapamil	
<b>SYMPATHOMIMETICS</b>	
atomoxetine	
diethylpropion	
MDEA	
ephedrine and/or pseudoephedrine	
methylphenidate	
ritalinic acid	
phenmetrazine	
phentermine	
phenylpropanolamine	
methcathinone	