



EXPERIENCED SCIENTISTS - ETHICAL PRACTICE - EXEMPLARY SERVICE



Toxicology at Its Finest

Elite Medical Laboratory Solutions is a toxicology facility located in Tomball, TX, 30 miles northwest of Houston. The 2,500-square foot laboratory enables our scientists to conduct toxicological analysis on physician administered tests, efficiently and effectively.

Elite is a state-of-the-art, full service laboratory, which can perform a wide range of drug metabolite detection, delivering accurate and cost-effective services. The laboratory design positions Elite for expansion as the business continues to grow.



The laboratory features an impressive array of instruments. Our AB Sciex 4500 conducts quantitative analysis that uses advanced liquid chromatography and tandem mass spectrometry technology. The laboratory also employs a Beckman Coulter AU680 for qualitative analysis.

Elite's staff includes highly qualified PhD's. Our scientists perform high-level analysis and interpret quality results. The facility has obtained CLIA (Clinical Laboratory Improvement Amendments) certification, ensuring it meets all federal and state regulatory requirements.





Rapid Results

Quality Analysis

Complete Service



Quantitative Testing

- Also called “confirmatory testing”
- More specific and sensitive than qualitative testing
- Gives a numerical concentration result for a drug

Qualitative Testing

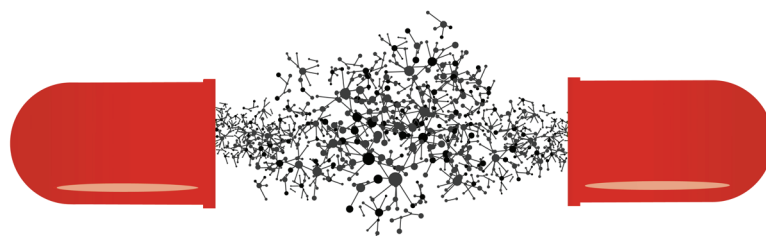
- Also called “screening”
- Detects the presence of metabolites in certain drugs above a determined threshold
- Results are presented simply as “positive” or “negative”

Reports

- Comprehensive, highly specific laboratory reports
- Includes a detailed analysis of drugs and metabolites detected in the specimen for quantitative testing
- Results available online within 24 to 48 hours through our state-of-the-art laboratory information system

Validity Testing

- Done to confirm that a urine sample has not been tampered with or altered
- Can check for adulteration, substitution, and dilution by ensuring that the creatinine, pH, and specific gravity fall within an acceptable range



Instrumentation

AB Sciex Triple Quad 4500 System

The Triple Quad 4500 System sets a new benchmark for reliable quantitation with 10-fold increase in sensitivity over competitive triple quadrupoles in the same class. The LC-MS/MS is an intelligently engineered workhorse.

The Triple Quad 4500 System covers key performance criteria such as:

- Quantitative sensitivity
- Dynamic range
- Scan speed
- Ionization source flow range
- Footprint

The 4500 Series uses proven eQ™ Electronics delivering polarity switching speeds of 50 msec and scan speeds of 12,000 Da/sec, enabling the measurement of compounds with vastly different functional groups in a single pass without sacrificing performance.

With 1-msec dwell times – the fastest dwell times of any mass spectrometer in the industry – the 4500 Series complements UHPLC separations to screen for more compounds within a single experiment than ever before, providing improved performance at ultra-low MRM dwell times.



Beckman Coulter AU680 Chemistry System

The newest member of the high-performance Beckman Coulter laboratory analyzer series is the AU680 Chemistry System. The AU680 Chemistry System helps medium to high throughput laboratories meet ever increasing pressures on time and productivity.

The AU680 Chemistry System is operated through a new and highly intuitive graphical user interface.

Flexibility is assured with a menu capacity of up to 63 different assays on board. A new special priority lane performs re-runs quickly.

Triple reagent dispensing enables the AU680 Chemistry System to perform assays requiring up to three separate reagents.

This enhances analytical performance and opens up new possibilities for current and future assays.



Capabilities

Urine Drug Testing

Urine Drug Testing (UDT) is the quickest, most common, convenient, and noninvasive way to test the body for illicit drugs and prescription medications and is less expensive than blood testing. Urine is easily available in sufficient quantities and contains higher concentrations of parent drugs and/or metabolites.

Qualitative (Screening) Panel

Amphetamines	Buprenorphine	Propoxyphene	Phencyclidine
Barbiturates	Cocaine	Opiates	THC
Benzodiazepines	Methadone	Oxycodone	

Quantitative (Confirmatory) Core Panel

Opiates	Opioids	Illicit Drugs	Stimulants	Barbiturates	Antidepressants / Antipsychotics
Naloxone	Fentanyl	6-MAM	Ritalinic Acid	Butalbital	Amitriptyline
Oxycodone	Norfentanyl	MDMA	Methylphenidate	Phenobarbital	Doxepin
Noroxycodone	Methadone	MDA			Imipramine
Oxymorphone	EDDP	THC-COOH			Quetiapine
Hydrocodone	Propoxyphene	Ketamine			
Hydromorphone	Buprenorphine	Norketamine			
Morphine	Norbuprenorphine	MDPV			
Codeine	Tapentadol	Benzoylcegonine			
	Tramadol	Phencyclidine (PCP)			

Sedatives	SSRI / SNRI	Benzodiazepines	Alcohol (EtG / EtS)	Amphetamines	OTC / Cough Suppressants
Zaleplon	Sertraline	Alprazolam	Ethyl Glucuronide	Amphetamine	Dextromethorphan
Carisoprodol	Paroxetine	Midazolam	Ethyl Sulfate	Methamphetamine	
Pregabalin	Venlafaxine	Diazepam		Phentermine	
Cyclobenzaprine		Nordiazepam			
Gabapentin		Triazolam			
Zolpidem		Lorazepam			
		Clonazepam			
		7-Aminoclonazepam			
		Flunitrazepam			
		a-Hydroxyalprazolam			

Oral Fluid Testing

Oral fluid testing is an easy, noninvasive method, which indicates what drugs are currently active in the body. With oral fluid testing, there is a shorter detection window and a limited amount of sample. Compared with urine testing, it should be used as an alternative when clinically indicated or more logistically practical.

Quantitative (Confirmatory) Panel

Opiates	Opioids	Illicit Drugs	Stimulants	Barbiturates	Benzodiazepines
Codeine	Buprenorphine	Cocaine	Amphetamine	Butalbital	Alprazolam
Dihydrocodeine	Fentanyl	Benzoylcegonine	Methamphetamine	Phenobarbital	Clonazepam
Morphine	Methadone	THC-COOH	MDA	Butabarbital	Diazepam
Oxycodone	EDDP		MDMA	Secobarbital	Flurazepam
Hydromorphone	Meperidine		PCP		Triazolam
Oxymorphone	Propoxyphene				Midazolam
6-MAM	Tapentadol				Nordiazepam
	Tramadol				Oxazepam
					Temazepam
					Lorazepam

Easy to Use Requisition Form



1101 Alma St., Suite 100 • Tomball, TX 77375
T 844-867-8134 • F 281-929-0081

Provider Information

1 Patient Information

Last _____ First _____

DOB ____/____/____ Gender: Male Female

Medicare Medicaid Work Comp DOI ____/____/____

Self-Pay Client Bill 3rd Party Insurance _____

3 Attach Copy of Insurance Document and Patient Demographics

4 Consent for Testing

Consent to Testing and Use of Results: The specimen identified on this form is my own. I have not adulterated it in any way. I am voluntarily submitting this specimen for analysis by my physician and/or Elite Medical Laboratory Solutions LLC (EMLS). I authorize EMLS to release the test results to the ordering practitioner.

Financial/Insurance Release: I authorize insurance payments to be made to EMLS and/or LifeBrite Laboratories for the laboratory services ordered by my practitioner. I authorize my physician and practice staff, as well as my insurance company (if any) to release to EMLS and/or LifeBrite Laboratories any information needed to determine benefits for laboratory services. I understand that I am responsible for payment of any deductibles or co-insurance charges. If the selfpay box is marked, I accept full financial responsibility for payment associated with these laboratory services.

Patient Signature _____ Date _____

6 Ordered Tests

PLEASE USE MY TEST ORDER ON FILE

Perform additional tests if ordered below in Confirmation Test Order Column.

I DO NOT HAVE A TEST ORDER ON FILE, OR DO NOT WISH TO USE MY TEST ORDER ON FILE.

Order from test selection below in Confirmation Test Order Column.

LC-MS/MS Confirmatory Testing	Confirmation Test Order	Confirmation Test Order	Confirmation Test Order
<input type="checkbox"/> Opiates	<input type="checkbox"/> Stimulants	<input type="checkbox"/> SSRI/SNRI	
Naloxone <input type="checkbox"/>	Ritalinic Acid <input type="checkbox"/>	Sertraline <input type="checkbox"/>	
Oxycodone <input type="checkbox"/>	Methylphenidate <input type="checkbox"/>	Paroxetine <input type="checkbox"/>	
Noroxycodone <input type="checkbox"/>	<input type="checkbox"/> Barbiturates	Venlafaxine <input type="checkbox"/>	
Oxymorphone <input type="checkbox"/>	Butalbital <input type="checkbox"/>	<input type="checkbox"/> Benzodiazepines	
Hydrocodone <input type="checkbox"/>	Phenobarbital <input type="checkbox"/>	Alprazolam <input type="checkbox"/>	
Hydromorphone <input type="checkbox"/>	<input type="checkbox"/> Illicit Drugs	a-Hydroxyalprazolam <input type="checkbox"/>	
Morphine <input type="checkbox"/>	6-MAM <input type="checkbox"/>	Diazepam <input type="checkbox"/>	
Codeine <input type="checkbox"/>	MDMA <input type="checkbox"/>	Nordiazepam <input type="checkbox"/>	
<input type="checkbox"/> Opioids	Phencyclidine (PCP) <input type="checkbox"/>	Triazolam <input type="checkbox"/>	
Fentanyl <input type="checkbox"/>	THC-COOH <input type="checkbox"/>	Lorazepam <input type="checkbox"/>	
Norfentanyl <input type="checkbox"/>	Ketamine <input type="checkbox"/>	Clonazepam <input type="checkbox"/>	
Methadone <input type="checkbox"/>	Norketamine <input type="checkbox"/>	7-Aminoclonazepam <input type="checkbox"/>	
EDDP <input type="checkbox"/>	MDPV <input type="checkbox"/>	Midazolam <input type="checkbox"/>	
Propoxyphene <input type="checkbox"/>	Benzoyllecgonine <input type="checkbox"/>	Flunitrazepam <input type="checkbox"/>	
Buprenorphine <input type="checkbox"/>	MDA <input type="checkbox"/>	<input type="checkbox"/> Alcohol (EtG/EtS)	
Norbuprenorphine <input type="checkbox"/>	<input type="checkbox"/> Sedatives	Ethyl Glucuronide <input type="checkbox"/>	
Tapentadol <input type="checkbox"/>	Zaleplon <input type="checkbox"/>	Ethyl Sulfate <input type="checkbox"/>	
Tramadol <input type="checkbox"/>	Carisoprodol <input type="checkbox"/>	<input type="checkbox"/> OTC/Cough Suppressants	
<input type="checkbox"/> Antidepressants/ Antipsychotics	Pregabalin <input type="checkbox"/>	Dextromethorphan <input type="checkbox"/>	
Amitriptyline <input type="checkbox"/>	Zolpidem <input type="checkbox"/>	<input type="checkbox"/> Amphetamines	
Doxepin <input type="checkbox"/>	Cyclobenzaprine <input type="checkbox"/>	Amphetamine <input type="checkbox"/>	
Imipramine <input type="checkbox"/>	Gabapentin <input type="checkbox"/>	Methamphetamine <input type="checkbox"/>	
Quetiapine <input type="checkbox"/>		Phentermine <input type="checkbox"/>	
		<input type="checkbox"/> Other	

Validity testing: Creatinine, pH, and specific gravity will be performed on all samples.

2 Diagnosis Codes

ADDITIONAL CODES:

- Opioid Type Dependence Continuous Use F11.20
- Unspecified Drug Dependence Unspecified Use F19.20
- Altered Mental Status R41.82
- Long-Term Current Use of Other Medications Z79.891, M79.1, M79.7
- Personal History of Noncompliance with Medical Treatment Presenting Hazards to Health Z91.1

5 Specimen Collection Information

Date: ____/____/____ Time: _____

Collector's Name: _____

Temperature checked within 4 minutes of collection and is between 90 and 100°F or 32 and 38°C Yes No

If No, actual temperature: _____

7 Qualitative Screening

Physician Office Elite Medical Lab

EIA Screening	+	-	Point of Care	+	-
Amphetamines			AMP		
Barbiturates			BAR		
Benzodiazepines			BUP		
Buprenorphine			BZO		
Cocaine			COC		
Methadone			MDMA		
Opiates			MET		
Oxycodone			MTD		
Phencyclidine			OPI		
Propoxyphene			OXY		
THC			PCP		
OTHER			PPX		
			TCA		
			OTHER		

8 Medication Information

Medication list attached Patient reports "no medication"

9 Physician Signature

X _____ Date _____

I understand and acknowledge that I am ordering tests that I believe are medically necessary for my patients to monitor their drug compliance. Notice to ordering practitioners: Documentation to support medical necessity for all tests ordered should be recorded in the patient's chart. Only tests that are medically necessary and reasonable for the diagnosis or treatment of a Medicare or Medicaid patient will be reimbursed. The Office of Inspector General takes the position that a person who orders or influences the ordering of medically unnecessary tests for which Medicare or Medicaid reimbursement is claimed may be subject to civil penalties under the False Claims Act. Note: Medicare generally does not cover or pay for routine screening tests.

Patient Information

Name _____

DOB: ____/____/____

Collection Date: ____/____/____

Lab Copy – White

Provider Copy – Yellow

Patient Copy – Pink

Sample Laboratory Report - Cover Page



Laboratory Report

CLIA ID#: #####
 Phone: (844)8678434 | Fax: (281)9290081
 1101 Alma St. Suite 100, Tomball, TX 77375
 Lab Director: Mehran Haidari, PhD.

Patient's Name SMITH, MARY E	DOB 03/20/1992	Gender Female	Patient Id 123456789	Accession 555	Printed 3/25/2016 11:06	Collected 3/22/2016	
Physician BROWN, GREG D	Client FAMILY HEALTH CENTER		Address 123 MAIN ST., HOUSTON, TX 77075			Received 3/24/2016	Reported 3/25/2016

Prescribed Medication: Lyrica (Pregabalin), Clonazepam (Clonazepam), Nexium (Esomeprazole), Ropinirole (Ropinirole), Propranolol (Propranolol), Losartan Potassium (Losartan potassium), Amphetamine (Amphetamine), Armour Thyroid (Thyroid), Norco (Hydrocodone)

Not Prescribed Detected

Test	Comments
Sertraline	(Zoloft) SSRI indicated for anxiety, depression and compulsive disorders. Detection Window: 6-8 d
Phentermine	(Vites, Adipex, Qsymia) psycho stimulant drug used as an appetite suppressant. Detection Window: 24 - 48 h

Prescribed Not Detected

Test	Comments
Hydrocodone	(Loratab, Vicodin) Opioid medication. Metabolites dihydrocodeine, hydromorphone, and norhydrocodone are preferred for positive confirmation. Detection Window: 24-48 h
Clonazepam	(Klonopin) Benzodiazepine. Metabolite 7-aminoclonazepam is preferred for positive confirmation. Detection Window: 4-12.5 d



Sample Laboratory Report - Page 1



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Point-of-Care Screen Results																			
Drug	POS	NEG	NOT	Drug	POS	NEG	NOT	Drug	POS	NEG	NOT	Drug	POS	NEG	NOT	Drug	POS	NEG	NOT
AMP			X	BUP			X	THC			X	OPI			X	PPX			
BAR			X	COC			X	MTD			X	OXY			X	TCA			X
BZO			X	MDMA			X	MAMP			X	PCP			X				

Test Screen	Results	Cutoff	Conc	Comments
EIA Screen				
Amphetamines - EIA	Positive	>1000 ng/mL		
Barbiturates - EIA	Negative	>200 ng/mL		
Benzodiazepines - EIA	Positive	>200 ng/mL		
Cocaine - EIA	Negative	>300 ng/mL		
Methadone - EIA	Negative	>300 ng/mL		
Opiates - EIA	Negative	>300 ng/mL		
Oxycodone - EIA	Negative	>300 ng/mL		
PCP - EIA	Negative	>25 ng/mL		
THC - EIA	Negative	>50 ng/mL		
Buprenorphine - EIA	Negative	>5 ng/mL		
Propoxyphene - EIA	Negative	>300 ng/mL		
LC- MS/MS Results w/ Validity				
Opiates				
Naloxone	Not Detected	>10 ng/mL		
Oxycodone	Not Detected	>50 ng/mL		
Noroxycodone	Not Detected	>50 ng/mL		
Oxymorphone	Not Detected	>50 ng/mL		
Hydrocodone	Not Detected	>50 ng/mL		
Hydromorphone	Not Detected	>50 ng/mL		
Morphine	Not Detected	>50 ng/mL		
Codeine	Not Detected	>50 ng/mL		
Opioids				
Fentanyl	Not Detected	>2 ng/mL		
Norfentanyl	Not Detected	>8 ng/mL		
EDDP	Not Detected	>100 ng/mL		
Propoxyphene	Not Detected	>100 ng/mL		
Buprenorphine	Not Detected	>10 ng/mL		
Norbuprenorphine	Not Detected	>30 ng/mL		
Tapentadol	Not Detected	>100 ng/mL		
Tramadol	Not Detected	>100 ng/mL		
Methadone	Not Detected	>100 ng/mL		
Antidepressants				
Amitriptyline	Not Detected	>50 ng/mL		
Doxepin	Not Detected	>50 ng/mL		
Imipramine	Not Detected	>50 ng/mL		
Quetiapine	Not Detected	>50 ng/mL		
Stimulants				
Ritalinic Acid	Not Detected	>50 ng/mL		
Methylphenidate	Not Detected	>50 ng/mL		
Barbiturates				
Butalbital	Not Detected	>100 ng/mL		
Phenobarbital	Not Detected	>100 ng/mL		
Illicit Drugs				
6-MAM	Not Detected	>25 ng/mL		
MDMA	Not Detected	>100 ng/mL		
Phencyclidine (PCP)	Not Detected	>20 ng/mL		

Sample Laboratory Report - Page 2



Laboratory Report

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Point-of-Care Screen Results																			
Drug	POS	NEG	NOT	Drug	POS	NEG	NOT	Drug	POS	NEG	NOT	Drug	POS	NEG	NOT	Drug	POS	NEG	NOT
AMP			X	BUP			X	THC			X	OPI			X	PPX			
BAR			X	COC			X	MTD			X	OXY			X	TCA			X
BZO			X	MDMA			X	MAMP			X	PCP			X				

Test Screen	Results	Cutoff	Conc	Comments
THC-COOH	Not Detected	>15 ng/mL		
Ketamine	Not Detected	>20 ng/mL		
Norketamine	Not Detected	>20 ng/mL		
MDPV	Not Detected	>25 ng/mL		
Benzoylcegonine	Not Detected	>50 ng/mL		
MDA	Not Detected	>100 ng/mL		
Sedatives				
Zaleplon	Not Detected	>10 ng/mL		(Lyrica) Anticonvulsant medication. Detection Window: 1-4 d
Carisoprodol	Not Detected	>100 ng/mL		
Pregabalin	Detected	>200 ng/mL	>10000 ng/mL	
Zolpidem	Not Detected	>10 ng/mL		
Cyclobenzaprine	Not Detected	>50 ng/mL		
Gabapentin	Not Detected	>1000 ng/mL		
SSI/SNRI				
Sertraline	Detected	>50 ng/mL	>2500 ng/mL	(Zoloft) SSRI indicated for anxiety, depression and compulsive disorders. Detection Window: 6-8 d
Paroxetine	Not Detected	>50 ng/mL		
Venlafaxine	Not Detected	>100 ng/mL		
Benzodiazepines				
Alprazolam	Not Detected	>50 ng/mL		Metabolite of Clonazepam (Klonopin). Preferred for positive confirmation. Detection Window: 4-12.5 d
a-Hydroxyalprazolam	Not Detected	>50 ng/mL		
Diazepam	Not Detected	>50 ng/mL		
Nordiazepam	Not Detected	>50 ng/mL		
Triazolam	Not Detected	>50 ng/mL		
Lorazepam	Not Detected	>50 ng/mL		
Clonazepam	Not Detected	>50 ng/mL		
7-Aminoclonazepam	Detected	>50 ng/mL	1077 ng/mL	
Midazolam	Not Detected	>50 ng/mL		
Flunitrazepam	Not Detected	>50 ng/mL		
Alcohol				
Ethyl Glucuronide	Not Detected	>500 ng/mL		
Ethyl Sulfate	Not Detected	>200 ng/mL		
Amphetamines				
Amphetamine	Detected	>200 ng/mL	8608 ng/mL	(Adderall, Vyvanse) CNS stimulant. Metabolite of Methamphetamine; may indicate illicit use if not prescribed. Detection Window: 48-96 h
Methamphetamine	Not Detected	>100 ng/mL		
Phentermine	Detected	>100 ng/mL	>5000 ng/mL	(Vites, Adipex, Qsymia) psycho stimulant drug used as an appetite suppressant. Detection Window: 24 - 48 h
OTC/Cough Suppressants				
Dextromethorphan	Not Detected	>50 ng/mL		
Validity Screen				
Creatinine	173	>20 mg/dL		
pH	5.5	4.7 - 7.8		
Specific Gravity	1.027	1.003 - 1.035 g/ml		

Elite Medical Laboratory Staff



Amr Nouraldeen

**PhD
Laboratory Director**

Dr. Nouraldeen manages all scientific operations including R&D and data quality. He has over 25 years experience in pharmaceutical R&D in academia, industrial, and biotech settings with an excellent track record in project planning and execution in the areas of oncology, neuroscience/pain, immunology/rheumatology, diabetes, gastroenterology, and infectious diseases.



Israel Reyes

**MBA
Laboratory Manager**

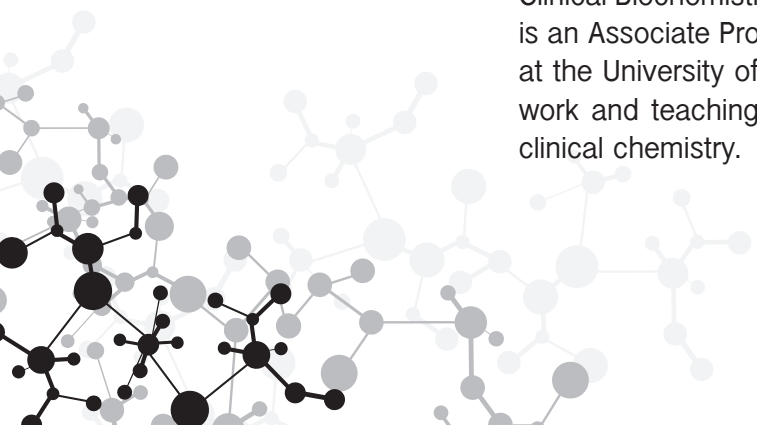
Israel's focus is to ensure operational efficiencies within the laboratory. Additionally, Israel contributes to LC-MS/MS technical operations while ensuring a solid foundation for continued growth and expansion. As a United States Air Force veteran, Israel has several years of leadership and high volume laboratory experience. Israel holds a Bachelors of Science and an MBA.



Mehran Haidari

**PhD, DABCC, FACB
Laboratory Director**

Dr. Haidari holds a Doctorate in Clinical Laboratory Sciences and a PhD in Clinical Biochemistry from the Tehran University of Medical Sciences in Iran. He is an Associate Professor of Cardiology in the Department of Internal Medicine at the University of Texas Medical School, Houston. Dr. Haidari has extensive work and teaching experience in both the fields of laboratory medicine and clinical chemistry.





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