



Abbott

HOW TO READ YOUR
TOXICOLOGY
RESULT REPORTS

RESULT REPORT OVERVIEW

Our toxicology results are easy to read and provide essential information to make informed decisions on drug detection and monitoring. The overview below includes callouts on the key components of the Toxicology Result Report to help you navigate each section.

RESULT REPORT OVERVIEW

- 1. SPECIMEN OVERVIEW:** This section includes information as it pertains to the donor, specimen collection, test type and agency. For clinical accounts, the Ordering Practitioner and NPI number will be listed on the report.
- 2. SUMMARY:** This section will display key findings.
- 3. TESTS ORDERED:** This section lists the tests that were ordered and performed.
- 4. DRUG TESTS RESULT SECTION:** This section includes details regarding the drug, result, cutoff and method. The table includes separate columns for screen and confirmation results.
- 5. LAB DEVELOPED TEST(S):** This statement will only appear on reports that include laboratory developed tests.
- 6. SPECIMEN VALIDITY TEST:** This section includes details on the specimen validity test(s) performed.
- 7. COMMENTS:** This section includes additional comments as indicated in the Summary.
- 8. METHOD INDEX:** This section provides information about the method abbreviations used in the report.
- 9. TERMINOLOGY INDEX:** This section defines key terms used throughout the report.
- 10. IMPORTANT NOTE:** This section provides information regarding test results.

Abbott
Redwood Toxicology Laboratory, Inc.
3650 Westwind Blvd., Santa Rosa, CA 95403
Phone: (707) 577-7959 or (800) 255-2159 | Fax: (707) 577-0365
www.redwoodtoxicology.com

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Laboratory Directors: Jaelin S. Arora, Ph.D., Henry Tsai, M.D., Ph.D.
CLIA Certificate # 0500707588

1 Identification: JOHN DOE
DOB: 09/01/1991
Sex: M
Collected by: TEST
Received: 09/29/2024 12:14 PM
Reported: 09/30/2024 08:21 PM

Account #: 500015
Requisition #: C1235123231
Accession #: 210211-12345
Specimen Type: Urine

Client: Test Agency
3650 Westwind Blvd.,
SANTA ROSA, CA 95403
Phone: (800)255-2159

2 **Summary**
Confirmed Positive for the following drug(s):

- Fentanyl (1.8 ng/mL)
- Norfentanyl (145.6 ng/mL)
- Phencyclidine (PCP) (23 ng/mL)
- Tramadol
- Tramadol metabolite(s)

Please read comment(s) below.

3 **Tests Ordered**

- 091 - Tramadol EIA Screen, Urine
- B465 - Urine 12 Panel
AMP, BAR, BUP, BZO, COC, ETG, FEN, MTD,
OPI, OXY, PCP, THC

Drug Class / Drug / Drug Metabolite	SCREEN			CONFIRMATION		
	Method	Cutoff	Result	Method	Cutoff	Result
Amphetamines	EIA	1000 ng/mL	Negative			
Barbiturates	EIA	200 ng/mL	Negative			
Benzodiazepines	EIA	200 ng/mL	Negative			
Buprenorphine	EIA	5 ng/mL	Negative			
Cocaine 150	EIA	150 ng/mL	Negative			
Ethyl Glucuronide (ETG)*	EIA	500 ng/mL	Negative			
Fentanyl						
Fentanyl	EIA	2 ng/mL	Screened Positive			
Acetyl fentanyl*				LC/MS/MS	0.5 ng/mL	Negative
Acryl fentanyl*				LC/MS/MS	0.5 ng/mL	Negative
Butyryl/Isobutyryl Fentanyl*				LC/MS/MS	0.5 ng/mL	Negative
Fentanyl*				LC/MS/MS	0.5 ng/mL	CONFIRMED POSITIVE
Fluorofentanyl*				LC/MS/MS	0.5 ng/mL	Negative
Furanyl fentanyl*				LC/MS/MS	0.5 ng/mL	Negative
Norfentanyl*				LC/MS/MS	5 ng/mL	CONFIRMED POSITIVE
Tetrahydrofurfanyl fentanyl*				LC/MS/MS	0.5 ng/mL	Negative
Valeryl fentanyl*				LC/MS/MS	0.5 ng/mL	Negative
Methadone	EIA	150 ng/mL	Negative			
Miscellaneous Narcotics / Analgesics						
Tramadol	EIA	200 ng/mL	Screened Positive			
Tramadol*				LC/MS/MS	100 ng/mL	CONFIRMED POSITIVE
Tramadol metabolite(s)*				LC/MS/MS	100 ng/mL	CONFIRMED POSITIVE
Opiates	EIA	300 ng/mL	Negative			
Oxycodone / Noroxycodone	EIA	100 ng/mL	Negative			
Phencyclidine (PCP)						
Phencyclidine (PCP)	EIA	25 ng/mL	Screened Positive			
Phencyclidine (PCP)*				LC/MS/MS	5 ng/mL	CONFIRMED POSITIVE
THC (Marijuana)	EIA	50 ng/mL	Negative			

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5 *This result was generated and processed in a CLIA certified, high complexity lab. This test was developed and validated by the CLIA certified laboratory performing the testing, pursuant to CLIA regulations. Its performance characteristics were determined by Redwood Toxicology Laboratory and have not been cleared or approved by the U.S. Food and Drug Administration.

6 **Specimen Validity Tests**

Test	Method	Reference Range	Result
Creatinine	Colorimetric	≥20 mg/dL	32.0 mg/dL

7 **Comments:**
Odor suggests possible adulteration

8 **Method Index**
EA - Enzyme Assay
EIA - Enzyme-Immunoassay
ELISA - Enzyme-Linked Immunosorbent Assay
GC-FID - Gas Chromatography - Flame Ionization Detector
GC/MS - Gas Chromatography / Mass Spectrometry
IA - Immunoassay
LC-MS/MS - Liquid Chromatography Tandem Mass Spectrometry

9 **TERMINOLOGY INDEX**

Cutoff	The concentration level equal to or above which the presence of a drug or drug class in the sample will be reported as positive for screen or confirmation.
Negative	Analytical result indicating drug, drug class or drug metabolite not detected equal to or above the applicable cutoff.
Screened Positive	Preliminary unconfirmed analytical result indicating presence of drug or drug class equal to or above the applicable cutoff.
Confirmed Positive	Confirmatory analytical result indicating presence of drug or drug metabolite equal to or above the applicable cutoff.

10 **Important Notes:**
Careful consideration and appropriate professional judgment should be applied when considering any drug of abuse test result. Certain test results may be impacted by interfering substances, time from collection, and human factors such as metabolism or medical conditions. If there are any unconfirmed positive (screen only) results in this report, a more specific alternate analytical method must be used in order to obtain a confirmed analytical result.

FREQUENTLY ASKED QUESTIONS

Below are answers to some frequently asked questions and illustrated result report scenarios.

1. WHAT IS THE DIFFERENCE BETWEEN A SCREEN TEST AND A CONFIRMATION TEST?

Screening is a technique used to rapidly identify negative and potential positive specimens for the absence or presence of a drug class. Confirmation involves a definitive identification of one or more specific drugs and/or metabolites in the specimen.

2. WHY DOES THE LAB START WITH A SCREEN TEST?

Performing an initial screen test allows for quickly identifying the negatives and narrowing down the potential class(es) of drug(s) present in potential positive specimens.

3. WHAT IS SCREENED POSITIVE AND HOW IS IT DIFFERENT FROM CONFIRMED POSITIVE?

Unconfirmed positive screen test results from techniques such as enzyme immunoassay (EIA) will show as “Screened Positive.” Screened Positive indicates only a preliminary analytical result. A more specific analytical method such as liquid chromatography-tandem mass spectrometry (LC-MS/MS) or gas chromatography-mass spectrometry (GC-MS) must be used in order to obtain a confirmed analytical result. Positive LC-MS/MS or GC-MS results will show as **“CONFIRMED POSITIVE.”**

4. WHY WOULD SOMETHING SCREEN POSITIVE AND CONFIRM NEGATIVE?

A positive screen result is consistent with the detection of a compound that is structurally similar to the target drug or drug class. A positive screen result should be considered **Screened Positive** and sent in for confirmation because cross-reactivity of immunoassay tests with chemicals similar in structure to the target drug can result in an **unconfirmed positive** (also known as a **false positive**).

WHAT DOES A SCREENED POSITIVE, CONFIRMED NEGATIVE RESULT LOOK LIKE ON MY TOXICOLOGY RESULT REPORT?

In the illustration below, the specimen screened positive for Cocaine by EIA. The screen result indicates “Screened Positive.” The secondary confirmation method by LC-MS/MS is negative. The confirmation result indicates “Negative.”

DRUG TESTS

DRUG CLASS/ DRUG/DRUG METABOLITE	SCREEN			CONFIRMATION		
	METHOD	CUTOFF	RESULT	METHOD	CUTOFF	RESULT
Alcohol (Ethanol)	EA	0.04g/dL	Negative			
Cocaine						
Cocaine (Benzoyllecgonine)	EIA	300 ng/mL	Screened Positive			
Benzoyllecgonine (Cocaine Metabolite)*				LC-MS/MS	100 ng/mL	Negative

This line indicates the screen result for Cocaine is Screened Positive by EIA. →

← This line indicates a Negative confirmation result for Cocaine by LC-MS/MS.

IN THE SCENARIO ABOVE, WHAT WOULD THE FINAL RESULT SUMMARY INDICATE?

For the scenario above, the Summary section of the Final Report would indicate “Negative.”

SUMMARY
Negative

WHAT DOES A SCREENED POSITIVE OR CONFIRMED POSITIVE LOOK LIKE ON MY TOXICOLOGY RESULT REPORT?

In the illustration below, the specimen screened positive for Cocaine by EIA. The screen result indicates “Screened Positive.” The secondary confirmation method by LC-MS/MS is positive. The confirmation result indicates **“CONFIRMED POSITIVE”** for the following drug: Benzoyllecgonine (Cocaine Metabolite). The corresponding quantitative level of detection is provided in the Summary.

DRUG TESTS						
DRUG CLASS/ DRUG/DRUG METABOLITE	SCREEN			CONFIRMATION		
	METHOD	CUTOFF	RESULT	METHOD	CUTOFF	RESULT
Alcohol (Ethanol)	EA	0.04 g/dL	Negative			
Amphetamines	EIA	1000 ng/mL	Negative			
Barbiturates	EIA	200 ng/mL	Negative			
Benzodiazepines	EIA	200 ng/mL	Negative			
Cocaine						
Cocaine (Benzoyllecgonine)	EIA	300 ng/mL	Screened Positive			
Benzoyllecgonine (Cocaine Metabolite)*				LC-MS/MS	100 ng/mL	CONFIRMED POSITIVE

This line indicates the screen result for Cocaine is Screened Positive by EIA.

This line indicates the confirmation result for Cocaine Metabolite is Positive by LC-MS/MS.

IN THE SCENARIO ABOVE, WHAT WOULD THE FINAL RESULT SUMMARY INDICATE?

For the scenario above, the Summary section of the Final Report will indicate **“CONFIRMED POSITIVE”** and include details of the drugs detected with the corresponding quantitative level of detection.

SUMMARY
Confirmed Positive for the following drug(s): Benzoyllecgonine (Cocaine Metabolite) (250 ng/mL)

WHAT DOES A SCREEN NEGATIVE LOOK LIKE ON MY TOXICOLOGY RESULT REPORT?

If the specimen screens negative for a particular drug or drug class, the Result column for the screen will indicate “Negative.”

FOR MORE INFORMATION, CONTACT US AT
REDWOODTOXICOLOGY.COM OR CALL US AT 800-255-2159

Testing conducted by Redwood Toxicology Laboratory, Inc.

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