

EtG III 200

ETHYL GLUCURONIDE III ENZYME IMMUNOASSAY *Forensic Use Only*
FOR 200 ng/mL CUTOFF

Liquid Homogeneous Enzyme Immunoassay

Lin-Zhi International's LZI Ethyl Glucuronide III Enzyme Immunoassay is intended for the qualitative and semi-quantitative determination of ethyl glucuronide in human urine with a cutoff value of 200 ng/mL when calibrated against ethyl glucuronide. The reagent kit, calibrators, and controls are ready-to-use and have 12 months of real-time stability data. The results shown below were performed on the Beckman Coulter AU480.

Precision

Qualitative Analysis

Results were measured in AOD / mAU

	Within-Run (N=22)		Total (N=88)	
	# Samples	Results	# Samples	Results
0 ng/mL	22	22 Neg	88	88 Neg
50 ng/mL	22	22 Neg	88	88 Neg
100 ng/mL	22	22 Neg	88	88 Neg
150 ng/mL	22	22 Neg	88	88 Neg
200 ng/mL	22	20 Neg/2 Pos	88	75 Neg/13 Pos
250 ng/mL	22	22 Pos	88	88 Pos
300 ng/mL	22	22 Pos	88	88 Pos
350 ng/mL	22	22 Pos	88	88 Pos
400 ng/mL	22	22 Pos	88	88 Pos

Semi-Quantitative Analysis

Results were measured in ng/mL

	Within-Run (N=22)		Total (N=88)	
	# Samples	Results	# Samples	Results
0 ng/mL	22	22 Neg	88	88 Neg
50 ng/mL	22	22 Neg	88	88 Neg
100 ng/mL	22	22 Neg	88	88 Neg
150 ng/mL	22	22 Neg	88	88 Neg
200 ng/mL	22	18 Neg/4 Pos	88	73 Neg/15 Pos
250 ng/mL	22	22 Pos	88	88 Pos
300 ng/mL	22	22 Pos	88	88 Pos
350 ng/mL	22	22 Pos	88	88 Pos
400 ng/mL	22	22 Pos	88	88 Pos

Method Comparison

Qualitative Accuracy Study

	Neg	< 50 % Cutoff	Near Cutoff Neg	Near Cutoff Pos	High Pos	% Agree- ment
Pos	0	0	6	31	177	98.1%
Neg	28	36	44	4	0	94.7%

Semi-Quantitative Accuracy Study

	Neg	< 50 % Cutoff	Near Cutoff Neg	Near Cutoff Pos	High Pos	% Agree- ment
Pos	0	0	5	30	177	97.6%
Neg	28	36	45	5	0	95.6%

Cross Reactivity

Structurally Related Compounds

Cross-reactant	Cutoff Equivalent Conc (ng/mL)	% Cross Reactivity
Ethyl Glucuronide (EtG)	200	104.3%
Acetaldehyde	1,000,000	0.0%
Ethyl Sulfate (EtS)	1,000,000	0.0%
Butanol	1,000,000	0.0%
2-Chloroethanol	1,000,000	0.0%
Ethanol	1,000,000	0.0%
Ethylene Glycol	1,000,000	0.0%
Isopropanol	1,000,000	0.0%
Methanol	1,000,000	0.0%
n-Propanol	1,000,000	0.0%
Alprazolam Glucuronide	100,000	0.0%
Acetaminophen-D-glucuronide	100,000	0.0%
Buprenorphine-3 β -D-glucuronide	10,000	1.0%
Butyl- β -D-glucopyranoside	100,000	0.0%
d-Glucose	30,000,000	0.0%
Ethyl α -D-glucopyranoside	100,000	0.0%
Ethyl β -D-glucopyranoside	100,000	0.3%
Glucuronic Acid	1,000,000	0.0%
Isopropyl- β -D-glucuronide	7,600	3.1%
Methyl- β -D-glucuronide	7,000	3.5%
Morphine-3-glucuronide	100,000	0.0%
Morphine-6-glucuronide	100,000	0.0%
4-Nitrophenyl- β -D-glucuronide	100,000	0.0%
Norbuprenorphine-glucuronide	10,000	0.5%
n-Propyl- β -D-glucuronide	1,960	10.3%
Oxazepam glucuronide	10,000	1.0%
Phenyl- β -D-glucuronide	100,000	0.0%
Temazepam glucuronide	10,000	0.9%
Trichloroethyl β -D-glucuronide	100,000	0.0%

For additional product performance details, see product insert.

Ordering Information

Ref #	Product	Size
0450	Ethyl Glucuronide III EIA, small Kit (R ₁ /R ₂)	100/37.5 mL
0451	Ethyl Glucuronide III EIA, large Kit (R ₁ /R ₂)	1000/375 mL
0001	Universal Negative Calibrator	5 mL
0452	Ethyl Glucuronide 100 ng/mL Low Calibrator	5 mL
0453	Ethyl Glucuronide 200 ng/mL Cutoff Calibrator	5 mL
0454	Ethyl Glucuronide 500 ng/mL Inter. Calibrator	5 mL
0455	Ethyl Glucuronide 1000 ng/mL High Calibrator	5 mL
0457	Ethyl Glucuronide 150 ng/mL Level 1 Control	5 mL
0458	Ethyl Glucuronide 250 ng/mL Level 2 Control	5 mL

DA: 10/28/2024

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