

EtG

RANDOX
TOXICOLOGY

Ethyl Glucuronide
Homogeneous Immunoassay

Ethyl Glucuronide (EtG) Homogeneous Immunoassay

Randox Toxicology has developed a Homogeneous Immunoassay (HIA) offering a highly sensitive and accurate toxicology screen for EtG. EtG is a non-oxidative metabolite of ethanol, formed by the detoxifying pathway of alcohol elimination via conjugation with activated glucuronic acid and represents about 0.5% of total ethanol elimination.

EtG can be detected in body fluids for an extended period of time after the elimination of alcohol from the body. In extreme cases the window of detection in urine could be up to 80 hours.

EtG has been proposed as a marker of recent ethanol intake in a variety of clinical and legal settings, for example in detecting recent drinking in cases of a negative ethanol test or to confirm abstinence from alcohol.

Randox Toxicology offers unrivalled expertise in Homogeneous Immunoassay reagent optimisation, facilitating exceptional laboratory performance on a variety of clinical chemistry analyzers. Instrument specific applications are available on all major clinical chemistry analyzers and can be provided upon request.

Features

Cut Off	500 ng/mL
Limit of Detection	203.6 ng/mL
Overall Agreement	98% correlation with LCMS/MS
Negative Agreement	Low false negatives - 100% agreement based on a Cut Off of 500 ng/mL EtG
Cross-Reactivity	No cross-reactivity with EtS
Shelf Life	2 years
Stability	On-board stability of 14 days
Kit Format	200 tests/kit and 1650 tests/kit
Calibrator Kit	Negative Calibrator (0 ng/mL EtG) and Cut Off Calibrator (500 ng/mL EtG)
Control	±25% of Cut Off Calibrator Negative Control (375 ng/mL EtG) Positive Control (625 ng/mL EtG)

Cross-Reactivity

Compound	Tested Concentration*	Equivalent Response w/EtG*	% Cross-Reactivity
Propyl-beta-D-Glucuronide	245.79	500	203.4
Methyl Ethyl Glucuronide	830.30	500	60.2
Methyl-beta-D-Glucuronide Sodium Salt	41906.5	500	1.2
Ethyl Sulphate (EtS)	50000	58	<1
Lorazepam Glucuronide	50000	0	<1
Glucuronic Acid	50000	0	<1
D-Glucose	50000	0	<1
1-Butanol	50000	0	<1
2-Butanol	50000	0	<1
Ethanol (8g/L)	50000	3	<1

*ng/mL

Precision

Sample Type	Recovery Below Cut Off	Recovery Above Cut Off
Negative	80	0
Positive	0	80

Order Information

Description	Size	Cat No
EtG HIA Kit (200 tests)	R1 = 2 x 13mL R2 = 2 x 13mL	ETG10072
EtG HIA Kit (1650 tests)	R1 = 2 x 100mL R2 = 2 x 100mL	ETG10073
EtG Calibrator Kit	4 x 1mL Negative Calibrator 4 x 1mL Cut Off Calibrator	ETG10074
EtG Negative Control Kit	8 x 1mL Negative Control	ETG10075
EtG Positive Control Kit	8 x 1mL Positive Control	ETG10076

For forensic use only



randotoxicology.com



info@randotoxicology.com