

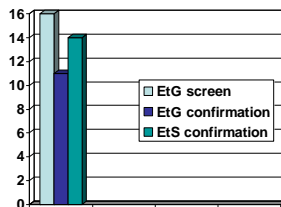
Field Testing the Microgenics DRI® EtG assay for Georgia's Treatment Courts:

A 3-Month Analysis of Screening and Confirmation Data

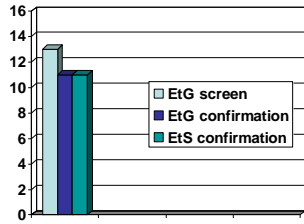
EtG Screening Reference Program

- 2007 DeKalb County Drug Court purchased the Ethyl Glucuronide (EtG) assay from Microgenics
- Began a study to confirm the assay's sensitivity, specificity, and reliability
- Partnered with Cherokee, DeKalb State, Fulton and Gwinnett County treatment courts
- 3 month study using the 500 ng/mL cutoff
- Liquid chromatography-tandem mass spectrometry (LC/MS) from United States Drug Testing Laboratory (USDTL)
- Second ethanol biomarker also used during confirmation, Ethyl Sulfate (EtS)
- 1576 screens and 119 confirmations used to create data for study's findings

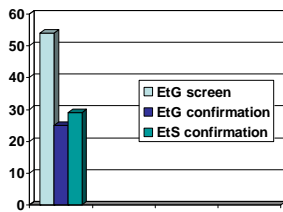
Screens above 500 sent for Confirmation Confirmed at 500 – **69% confirmation rate**



Screens above 500 sent for Confirmation
 Factoring in Possible Breakdown Cases
 Confirmed at 500 – **85% confirmation rate**

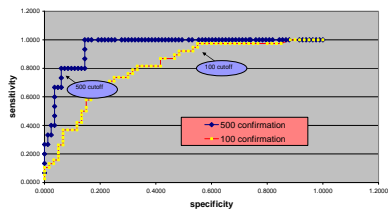


Screens between 100-500 sent for Confirmation
 Confirmed at 100 – **53% confirmation rate**



ROC Curve Based on Bayesian Analysis

DeKalb County Drug Court Laboratory
 ETG Study
 Appendix 5



Number of Days in Transport and Shelf-time

	Range	Mean	Median	Mode
Collection to Screen	0-15	2.36	2	1
Screen to Confirmation	1-19	6.48	6	6

Possible EtG Breakdown Cases

	Screen	EtG	EtS	Re-screen
Days from Collection to Screen	1595 2 days	29 fmr 7 days	95	
Days from Screen to Confirmation	2916 1 day	<36 8 days	1700	
Days from Confirmation To Re-screen	2607 2 days	96 7 days	1040	-29 11 days

Study Findings
And
Practice Pointers

- Cut-off Consistency
 - Recommendation: 500 ng/mL screen to 500 ng/mL confirmation
- Cut-off Performance
 - Recommendation: 500 ng/mL
- Mercer University Study of Incidental Exposure
- Possible Breakdown
 - Recommendation:
 - Refrigerate samples
 - Expedite transport to confirmation
- Confirmation Always Necessary
 - Recommendation: confirmation lab include testing for EtS
