

Newborn Screening Quality Assurance Program
Quality Control Specimen Certification
 Set 1 – January 11, 2016
Guanidinoacetate Methyltransferase (GAMT) by FIA-MS/MS
EXPIRATION: October 2016

Method: MS/MS Derivatized - MS/MS non-kit

<i>Enrichment levels. Units are $\mu\text{mol/liter}$ whole blood.</i>		
<i>Lot</i>	Guanidinoacetic acid (GAA)	Creatine (CRE)
A1512	0	0
B1512	2.5	50
C1512	5.0	150
D1512	7.5	300
E1512	10.0	450

ANALYTICAL INFORMATION

<i>Lot Numbers, Mean Values (\bar{x}), and 95% Confidence Limits (CL).</i>		
<i>Units are $\mu\text{mol/liter}$ whole blood.</i>		
<i>Lot</i>	Guanidinoacetic acid (GAA)	Creatine (CRE)
	<i>Mean/ 95% CL</i>	<i>Mean/ 95% CL</i>
A1512	$\bar{x} = 3.42$ CL = 2.99 – 3.85	$\bar{x} = 271.82$ CL = 232.29 – 311.35
B1512	$\bar{x} = 5.66$ CL = 4.89 – 6.42	$\bar{x} = 314.25$ CL = 265.59 – 362.91
C1512	$\bar{x} = 7.80$ CL = 6.65 – 8.96	$\bar{x} = 398.94$ CL = 338.02 – 459.86
D1512	$\bar{x} = 10.60$ CL = 9.13 – 12.06	$\bar{x} = 573.57$ CL = 486.25 – 660.89
E1512	$\bar{x} = 12.81$ CL = 11.05 – 14.57	$\bar{x} = 706.31$ CL = 608.52 – 804.10

Note: The values provided in the above tables are for reference use only. The mean value and confidence limits (CL) are determined by CDC for each Quality Control (QC) lot. Each participating laboratory must establish its own mean values and CL for its test method with these QC materials. Temporary estimates of mean values and CL can be determined after 10 successive, independent measurements. *Slazyk WE, Hannon WH. Quality Assurance in the newborn screening laboratory. In: Therrell BL Jr, editor. Laboratory methods for neonatal screening. Washington (DC): American Public Health Association, 1993:23-46.*