

Quality Control Hormones Specimen Certification Set 2 – July 11, 2011

ENRICHMENT LEVELS (endogenous levels not included)

<i>Analyte</i>	<i>Lot</i>	<i>Low</i>	<i>Lot</i>	<i>Intermediate</i>	<i>Lot</i>	<i>High</i>
Thyroxine (T ₄ µg/dL serum)	901	2	902	7	903	11
Thyroid-Stimulating Hormone (TSH µIU/mL serum)	111	25	112	40	113	80
17 α-Hydroxyprogesterone (17-OHP ng/mL serum)	151	25	152	50	153	100

ANALYTICAL INFORMATION

<i>Analyte</i>	<i>Lot</i>	<i>Mean/ 95% CL</i>	<i>Lot</i>	<i>Mean/ 95% CL</i>	<i>Lot</i>	<i>Mean/ 95% CL</i>
T ₄		$\bar{x} = 1.3$		$\bar{x} = 5.5$		$\bar{x} = 10.5$
	901	CL = 0.6-2.0	902	CL = 3.1-7.8	903	CL = 6.4-14.6
TSH		$\bar{x} = 24.8$		$\bar{x} = 38.7$		$\bar{x} = 81.9$
	111	CL = 21.87-27.80	112	CL = 31.37-46.00	113	CL = 70.27-93.45
17-OHP		$\bar{x} = 28.9$		$\bar{x} = 53.3$		$\bar{x} = 110.1$
	151	CL = 21.47-36.38	152	CL = 45.27-61.28	153	CL = 87.28-132.95

***Analysis Method: MSMS Derivatized - MS/MS non-kit**

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.



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Transition (parallel testing) Materials

ENRICHMENT LEVELS (endogenous levels not included)

<i>Analyte</i>	Lot	<i>Low</i>	Lot	<i>Intermediate</i>	Lot	<i>High</i>
T ₄						
TSH	011	25	012	40	013	80
17-OHP	951	25	952	50	953	100

ANALYTICAL INFORMATION

<i>Analyte</i>	<i>Lot</i>	<i>Mean/ 95% CL</i>	<i>Lot</i>	<i>Mean/ 95% CL</i>	<i>Lot</i>	<i>Mean/ 95% CL</i>
T ₄						
TSH	011	$\bar{x} = 26.5$ CL = 22.0-31.0	012	$\bar{x} = 42.9$ CL = 35.9-49.9	013	$\bar{x} = 84.4$ CL = 73.2-95.5
17-OHP	951	$\bar{x} = 21.1$ CL = 13.6-28.6	952	$\bar{x} = 46.4$ CL = 30.2-62.6	953	$\bar{x} = 84.4$ CL = 58.9-110.7

***Analysis Method: MSMS Derivatized - MS/MS non-kit**

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.*