

**Newborn Screening Quality Assurance Program**
Overall Statistics
(Calculations based on All Labs, All Methods)
Year: 2019 Quarter: 3**Acylcarnitines**

Specimen 31961	C0(L)	C3	C3DC	C3DC+ C4OH	C4	C4OH	C5	C5:1	C5DC	C5OH	C6
N*	302	307	117	126	286	105	304	279	293	276	290
Outliers	18	14	4	9	15	7	25	18	20	8	17
Mean	5.38	0.34	0.03	0.03	0.08	0.04	0.04	0.02	0.02	0.20	0.02
UL (95%)	7.36	0.50	0.09	0.05	0.13	0.08	0.07	0.04	0.06	0.32	0.05
LL (95%)	3.39	0.18	0.00	0.01	0.02	0.00	0.01	0.00	0.00	0.09	0.00

Specimen 31962	C0(L)	C3	C3DC	C3DC+ C4OH	C4	C4OH	C5	C5:1	C5DC	C5OH	C6
N*	309	305	115	125	290	107	304	278	310	276	288
Outliers	11	16	6	10	11	5	24	19	5	8	19
Mean	3.20	0.35	0.03	0.03	0.05	0.05	0.03	0.02	1.88	0.24	0.02
UL (95%)	5.60	0.50	0.08	0.05	0.10	0.10	0.06	0.04	3.21	0.39	0.04
LL (95%)	0.81	0.20	0.00	0.01	0.00	0.00	0.00	0.00	0.55	0.09	0.00

Specimen 31963	C0(L)	C3	C3DC	C3DC+ C4OH	C4	C4OH	C5	C5:1	C5DC	C5OH	C6
N*	302	304	115	125	279	107	309	279	296	275	290
Outliers	18	17	6	10	23	5	20	18	17	10	20
Mean	4.53	0.35	0.05	0.03	0.18	0.05	0.03	0.02	0.04	0.27	2.33
UL (95%)	9.31	0.52	0.12	0.05	0.60	0.09	0.06	0.04	0.08	0.43	2.92
LL (95%)	0.00	0.19	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.11	1.74

Specimen 31964	C0(L)	C3	C3DC	C3DC+ C4OH	C4	C4OH	C5	C5:1	C5DC	C5OH	C6
N*	304	308	119	124	288	106	315	278	294	276	289
Outliers	16	15	2	11	13	6	14	19	19	8	18
Mean	4.45	9.79	0.04	0.03	0.06	0.05	0.04	0.02	0.03	0.27	0.02
UL (95%)	8.40	13.01	0.10	0.05	0.12	0.09	0.07	0.04	0.06	0.50	0.06
LL (95%)	0.50	6.57	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.04	0.00

Specimen 31965	C0(L)	C3	C3DC	C3DC+ C4OH	C4	C4OH	C5	C5:1	C5DC	C5OH	C6
N*	301	303	118	126	286	106	315	283	304	278	286
Outliers	19	18	4	9	17	6	14	16	10	6	21
Mean	7.99	0.27	16.25	4.26	2.64	0.36	0.04	0.53	0.21	0.27	0.02
UL (95%)	13.71	0.43	31.91	7.21	3.38	1.04	0.09	0.80	0.53	0.49	0.05
LL (95%)	2.27	0.11	0.59	1.31	1.91	0.00	0.00	0.26	0.00	0.05	0.00

Overall Statistics
(Calculations based on All Labs, All Methods)

Year: 2019 Quarter: 3

Acylcarnitines

Specimen 31961	C8	C10	C10:1	C10:2	C14	C14:1	C16	C16OH	C18	C18:1	C18OH
N*	314	298	263	200	285	300	304	290	283	271	244
Outliers	20	21	28	12	21	16	11	20	15	20	18
Mean	0.03	0.02	0.01	0.01	0.03	0.02	0.38	0.01	0.30	0.48	0.01
UL (95%)	0.07	0.05	0.04	0.02	0.05	0.05	0.52	0.02	0.41	0.65	0.02
LL (95%)	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.20	0.31	0.00

Specimen 31962	C8	C10	C10:1	C10:2	C14	C14:1	C16	C16OH	C18	C18:1	C18OH
N*	318	300	268	199	292	300	312	293	282	272	248
Outliers	16	19	23	13	14	16	3	17	16	19	14
Mean	0.03	0.03	0.02	0.01	0.06	0.03	0.73	0.01	0.49	0.75	0.01
UL (95%)	0.07	0.06	0.04	0.02	0.10	0.06	0.98	0.02	0.64	1.01	0.02
LL (95%)	0.00	0.00	0.00	0.00	0.02	0.00	0.48	0.00	0.35	0.48	0.00

Specimen 31963	C8	C10	C10:1	C10:2	C14	C14:1	C16	C16OH	C18	C18:1	C18OH
N*	321	311	274	201	288	300	305	292	279	267	243
Outliers	15	10	18	11	18	16	10	18	19	24	19
Mean	22.51	1.75	0.63	0.01	0.06	0.03	0.72	0.01	0.48	0.74	0.01
UL (95%)	29.65	2.46	1.00	0.02	0.09	0.06	0.95	0.03	0.61	0.98	0.02
LL (95%)	15.36	1.05	0.27	0.00	0.03	0.00	0.50	0.00	0.35	0.50	0.00

Specimen 31964	C8	C10	C10:1	C10:2	C14	C14:1	C16	C16OH	C18	C18:1	C18OH
N*	315	298	273	200	287	300	305	295	281	268	250
Outliers	19	21	18	12	19	16	10	15	17	23	12
Mean	0.08	0.03	0.02	0.01	0.03	0.02	0.53	0.01	0.33	0.55	0.01
UL (95%)	0.18	0.06	0.05	0.02	0.06	0.05	0.70	0.02	0.44	0.75	0.02
LL (95%)	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.22	0.36	0.00

Specimen 31965	C8	C10	C10:1	C10:2	C14	C14:1	C16	C16OH	C18	C18:1	C18OH
N*	324	316	269	201	286	291	304	297	277	267	252
Outliers	10	4	22	11	20	25	12	14	22	25	12
Mean	0.06	0.16	0.03	0.62	0.08	0.06	12.58	0.03	5.19	8.90	0.02
UL (95%)	0.11	0.33	0.07	1.05	0.19	0.19	15.89	0.06	6.47	11.80	0.04
LL (95%)	0.00	0.00	0.00	0.18	0.00	0.00	9.27	0.00	3.91	5.99	0.00

*Outliers are not included in N. UL = upper limit LL = lower limit

Overall Statistics
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Year: 2019 Quarter: 3

Amino Acids

Specimen 31951	Arg	Cit	Leu	Met	Phe	SUAC	Tyr	Val
N*	270	291	322	310	402	151	324	294
Outliers	9	18	14	11	22	4	12	10
Mean	23.22	510.91	143.22	28.41	79.24	0.52	198.97	135.96
UL (95%)	37.0	655.4	185.5	38.2	103.8	1.3	257.0	181.8
LL (95%)	9.4	366.4	100.9	18.6	54.6	0.0	141.0	90.1

Specimen 31952	Arg	Cit	Leu	Met	Phe	SUAC	Tyr	Val
N*	267	293	328	310	406	147	322	294
Outliers	12	15	8	12	18	8	13	10
Mean	21.85	28.80	143.49	137.57	100.60	0.49	177.37	136.43
UL (95%)	32.7	40.4	188.2	177.5	130.7	1.1	227.5	179.1
LL (95%)	11.0	17.2	98.8	97.7	70.5	0.0	127.3	93.8

Specimen 31953	Arg	Cit	Leu	Met	Phe	SUAC	Tyr	Val
N*	270	301	326	310	410	145	317	294
Outliers	9	7	10	11	16	10	18	10
Mean	22.44	28.17	144.65	15.92	382.33	0.49	54.59	137.27
UL (95%)	34.0	38.0	190.4	23.3	497.5	1.1	70.0	182.3
LL (95%)	10.9	18.3	98.9	8.6	267.2	0.0	39.2	92.3

Specimen 31954	Arg	Cit	Leu	Met	Phe	SUAC	Tyr	Val
N*	269	301	323	311	395	146	319	295
Outliers	10	7	14	10	30	9	16	10
Mean	24.45	27.66	742.07	15.12	73.12	0.49	53.52	579.61
UL (95%)	36.6	37.5	947.3	21.3	99.4	1.1	68.4	783.2
LL (95%)	12.3	17.8	536.8	9.0	46.8	0.0	38.7	376.0

Specimen 31955	Arg	Cit	Leu	Met	Phe	SUAC	Tyr	Val
N*	266	298	327	307	399	149	322	295
Outliers	13	10	9	14	25	8	13	9
Mean	21.40	27.12	142.34	14.87	73.30	17.26	709.31	136.17
UL (95%)	31.9	36.7	187.9	20.6	100.5	32.2	919.9	183.9
LL (95%)	10.9	17.5	96.8	9.1	46.1	2.3	498.7	88.4

*Outliers are not included in N. UL = upper limit LL = lower limit

Overall Statistics
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Year: 2019 Quarter: 3

Hormones and Galactose

Specimen 31911	T4	TSH	17OHP	TGal
N*	75	328	255	165
Outliers	2	11	14	10
Mean	13.2	14.0	5.3	22.8
UL (95%)	17.3	20.4	8.2	31.9
LL (95%)	9.1	7.5	2.3	13.8

Specimen 31912	T4	TSH	17OHP	TGal
N*	76	325	253	171
Outliers	1	14	17	5
Mean	16.5	7.7	7.0	2.2
UL (95%)	22.7	11.5	11.0	4.5
LL (95%)	10.3	3.8	3.0	0.0

Specimen 31913	T4	TSH	17OHP	TGal
N*	73	323	257	167
Outliers	4	16	13	7
Mean	14.8	7.6	82.6	2.1
UL (95%)	18.7	11.1	119.1	4.4
LL (95%)	10.8	4.0	46.1	0.0

Specimen 31914	T4	TSH	17OHP	TGal
N*	70	325	258	168
Outliers	4	15	10	8
Mean	1.7	67.0	3.9	2.6
UL (95%)	2.8	93.2	6.2	4.6
LL (95%)	0.6	40.9	1.7	0.7

Specimen 31915	T4	TSH	17OHP	TGal
N*	74	321	254	166
Outliers	3	18	15	10
Mean	17.0	8.6	5.0	2.4
UL (95%)	22.2	12.4	8.1	4.4
LL (95%)	11.8	4.7	2.0	0.4

*Outliers are not included in N. UL = upper limit LL = lower limit

Overall Statistics
(Calculations based on All Labs, All Methods)

Year: 2019 Quarter: 3

Immunoreactive Trypsinogen

Specimen 31981	IRT
N*	212
Outliers	16
Mean	33.3
UL (95%)	54.2
LL (95%)	12.4

Specimen 31982	IRT
N*	213
Outliers	15
Mean	43.1
UL (95%)	66.1
LL (95%)	20.1

Specimen 31983	IRT
N*	211
Outliers	12
Mean	13.8
UL (95%)	21.6
LL (95%)	6.0

Specimen 31984	IRT
N*	221
Outliers	7
Mean	204.9
UL (95%)	301.1
LL (95%)	108.7

Specimen 31985	IRT
N*	216
Outliers	12
Mean	136.1
UL (95%)	194.4
LL (95%)	77.9

*Outliers are not included in N. UL = upper limit LL = lower limit