

**Newborn Screening Quality Assurance Program**
Overall Statistics
(Calculations based on All Labs, All Methods)

Year: 2019 Quarter: 4

Acylcarnitines

Specimen 41961	C0(L)	C2(L)	C3	C3DC	C3DC+ C4OH	C4	C4OH	C5	C5:1	C5DC	C5OH
N*	297	167	298	109	122	271	104	310	273	285	267
Outliers	14	7	17	5	10	19	4	12	14	20	9
Mean	14.81	10.48	0.64	0.04	1.92	0.06	2.21	0.04	0.02	0.03	0.40
UL (95%)	20.05	15.34	0.88	0.11	2.80	0.11	3.46	0.08	0.05	0.07	0.62
LL (95%)	9.57	5.61	0.39	0.00	1.05	0.01	0.96	0.00	0.00	0.00	0.18

Specimen 41962	C0(L)	C2(L)	C3	C3DC	C3DC+ C4OH	C4	C4OH	C5	C5:1	C5DC	C5OH
N*	301	166	298	107	125	271	102	304	272	295	270
Outliers	10	8	17	7	7	19	5	18	16	10	6
Mean	19.01	16.62	0.95	0.04	0.08	0.08	0.10	0.05	0.02	0.04	0.47
UL (95%)	26.46	23.24	1.27	0.09	0.12	0.13	0.19	0.09	0.05	0.10	0.73
LL (95%)	11.55	9.99	0.62	0.00	0.03	0.02	0.02	0.01	0.00	0.00	0.20

Specimen 41963	C0(L)	C2(L)	C3	C3DC	C3DC+ C4OH	C4	C4OH	C5	C5:1	C5DC	C5OH
N*	299	168	300	107	125	270	101	292	270	296	270
Outliers	12	6	15	7	7	20	6	30	16	9	6
Mean	14.64	10.45	0.64	0.03	0.04	0.06	0.05	0.04	0.02	0.04	0.40
UL (95%)	20.07	15.50	0.88	0.07	0.06	0.11	0.11	0.07	0.05	0.08	0.62
LL (95%)	9.20	5.40	0.39	0.00	0.01	0.01	0.00	0.01	0.00	0.00	0.18

Specimen 41964	C0(L)	C2(L)	C3	C3DC	C3DC+ C4OH	C4	C4OH	C5	C5:1	C5DC	C5OH
N*	301	167	306	108	123	273	102	304	272	290	271
Outliers	10	7	9	6	9	17	5	18	15	16	6
Mean	26.06	15.40	1.86	0.04	0.08	0.18	0.11	0.12	0.03	0.05	1.51
UL (95%)	34.68	22.84	2.52	0.09	0.11	0.26	0.19	0.17	0.06	0.10	2.23
LL (95%)	17.44	7.95	1.20	0.00	0.04	0.09	0.02	0.07	0.00	0.00	0.80

Specimen 41965	C0(L)	C2(L)	C3	C3DC	C3DC+ C4OH	C4	C4OH	C5	C5:1	C5DC	C5OH
N*	301	164	300	107	123	275	101	313	271	289	274
Outliers	10	10	15	7	9	15	6	12	16	16	2
Mean	18.99	16.72	0.95	0.04	0.09	0.08	0.13	1.47	0.02	0.04	0.47
UL (95%)	26.43	23.13	1.30	0.09	0.13	0.15	0.24	1.92	0.05	0.09	0.74
LL (95%)	11.55	10.32	0.60	0.00	0.05	0.02	0.02	1.02	0.00	0.00	0.21

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Specimen 41961	C6	C8	C10	C10:1	C10:2	C14	C14:1	C16	C16OH	C18	C18:1	C18OH
N*	276	308	294	264	192	271	289	292	292	272	265	240
Outliers	17	16	15	14	11	27	18	12	10	19	15	12
Mean	0.02	0.04	0.03	0.02	0.01	0.05	0.03	0.70	0.01	0.40	0.82	0.01
UL (95%)	0.05	0.07	0.06	0.05	0.03	0.07	0.06	0.93	0.03	0.52	1.11	0.02
LL (95%)	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.48	0.00	0.29	0.54	0.00

Specimen 41962	C6	C8	C10	C10:1	C10:2	C14	C14:1	C16	C16OH	C18	C18:1	C18OH
N*	274	315	291	260	195	283	293	290	285	273	265	244
Outliers	19	9	18	18	8	16	15	14	17	18	15	8
Mean	0.03	0.05	0.06	0.04	0.01	1.56	1.30	1.09	0.01	0.60	1.18	0.01
UL (95%)	0.06	0.09	0.10	0.09	0.04	2.04	1.90	1.40	0.03	0.75	1.59	0.03
LL (95%)	0.00	0.01	0.01	0.00	0.00	1.09	0.71	0.77	0.00	0.45	0.77	0.00

Specimen 41963	C6	C8	C10	C10:1	C10:2	C14	C14:1	C16	C16OH	C18	C18:1	C18OH
N*	276	318	301	264	194	279	285	296	303	281	264	240
Outliers	17	6	8	14	9	19	22	8	2	10	16	13
Mean	0.02	0.04	0.03	0.02	0.01	0.05	0.03	0.70	0.74	0.41	0.83	0.58
UL (95%)	0.05	0.08	0.07	0.05	0.03	0.09	0.07	0.96	1.19	0.54	1.15	0.85
LL (95%)	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.45	0.29	0.27	0.51	0.32

Specimen 41964	C6	C8	C10	C10:1	C10:2	C14	C14:1	C16	C16OH	C18	C18:1	C18OH
N*	278	305	295	260	193	278	290	290	299	275	265	243
Outliers	15	19	14	18	10	20	17	14	4	16	14	9
Mean	0.02	0.04	0.04	0.02	0.01	0.09	0.04	1.48	0.02	0.86	1.40	0.01
UL (95%)	0.05	0.07	0.08	0.04	0.03	0.14	0.08	1.90	0.05	1.09	1.86	0.03
LL (95%)	0.00	0.00	0.00	0.00	0.00	0.05	0.00	1.05	0.00	0.63	0.93	0.00

Specimen 41965	C6	C8	C10	C10:1	C10:2	C14	C14:1	C16	C16OH	C18	C18:1	C18OH
N*	279	313	295	260	191	281	293	296	295	283	267	244
Outliers	14	11	14	18	12	17	15	8	8	8	12	8
Mean	0.03	0.05	0.05	0.03	0.01	0.09	0.05	1.09	0.01	0.60	1.18	0.01
UL (95%)	0.06	0.09	0.09	0.06	0.03	0.12	0.09	1.41	0.04	0.79	1.58	0.03
LL (95%)	0.00	0.01	0.01	0.00	0.00	0.05	0.01	0.76	0.00	0.41	0.77	0.00

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

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Amino Acids

Specimen 41951	Arg	Cit	Leu	Met	Phe	SUAC	Tyr	Val
N*	262	295	318	294	383	143	317	287
Outliers	11	4	10	16	29	7	10	7
Mean	14.44	26.20	516.58	13.35	51.12	0.46	59.87	495.29
UL (95%)	23.0	36.7	659.0	18.7	74.5	1.0	78.0	673.7
LL (95%)	5.9	15.7	374.1	8.0	27.8	0.0	41.8	316.9

Specimen 41952	Arg	Cit	Leu	Met	Phe	SUAC	Tyr	Val
N*	266	292	319	297	397	144	315	285
Outliers	7	8	7	13	15	7	12	7
Mean	14.43	172.36	138.90	13.69	50.58	0.46	60.22	137.45
UL (95%)	25.2	236.4	187.0	19.7	72.5	1.0	78.7	185.0
LL (95%)	3.6	108.3	90.8	7.7	28.6	0.0	41.8	89.9

Specimen 41953	Arg	Cit	Leu	Met	Phe	SUAC	Tyr	Val
N*	262	285	320	295	389	144	313	283
Outliers	11	14	6	15	23	10	13	9
Mean	6.82	19.22	144.54	24.56	62.39	17.32	849.81	137.39
UL (95%)	11.6	26.7	193.2	33.7	88.6	29.5	1101.6	182.0
LL (95%)	2.0	11.8	95.9	15.4	36.2	5.1	598.0	92.7

Specimen 41954	Arg	Cit	Leu	Met	Phe	SUAC	Tyr	Val
N*	273	285	316	297	387	143	317	284
Outliers	1	14	10	13	25	8	10	8
Mean	121.80	21.52	144.02	24.73	59.01	0.54	63.69	138.19
UL (95%)	203.0	29.2	190.2	33.8	78.3	1.2	83.9	183.6
LL (95%)	40.6	13.8	97.9	15.6	39.7	0.0	43.5	92.8

Specimen 41955	Arg	Cit	Leu	Met	Phe	SUAC	Tyr	Val
N*	257	291	315	298	392	145	317	285
Outliers	16	8	11	13	20	5	10	7
Mean	6.99	38.74	124.13	149.92	51.96	0.54	52.49	120.68
UL (95%)	13.1	52.4	162.0	196.7	73.6	1.3	69.4	161.3
LL (95%)	0.9	25.1	86.2	103.2	30.3	0.0	35.5	80.0

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Hormones and Galactose

Specimen 41911	T4	TSH	17OHP	TGal
N*	64	307	251	161
Outliers	7	25	12	4
Mean	1.6	73.1	4.8	2.8
UL (95%)	2.4	94.3	7.1	5.4
LL (95%)	0.8	52.0	2.5	0.3

Specimen 41912	T4	TSH	17OHP	TGal
N*	73	320	252	158
Outliers	4	10	12	6
Mean	13.7	6.9	78.2	2.4
UL (95%)	17.8	10.1	110.2	4.6
LL (95%)	9.7	3.7	46.3	0.2

Specimen 41913	T4	TSH	17OHP	TGal
N*	72	321	252	162
Outliers	5	10	9	2
Mean	13.1	7.3	4.7	2.7
UL (95%)	16.6	10.8	7.9	6.4
LL (95%)	9.5	3.9	1.6	0.0

Specimen 41914	T4	TSH	17OHP	TGal
N*	73	318	252	158
Outliers	4	12	11	8
Mean	13.8	6.8	5.7	25.1
UL (95%)	18.4	10.0	9.0	36.1
LL (95%)	9.3	3.5	2.4	14.2

Specimen 41915	T4	TSH	17OHP	TGal
N*	71	314	251	159
Outliers	6	17	12	5
Mean	13.8	9.0	5.2	2.9
UL (95%)	17.8	12.6	8.3	5.1
LL (95%)	9.9	5.3	2.1	0.7

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Immunoreactive Trypsinogen

Specimen 41981	IRT
N*	200
Outliers	11
Mean	6.2
UL (95%)	11.5
LL (95%)	1.0

Specimen 41982	IRT
N*	211
Outliers	10
Mean	13.5
UL (95%)	23.9
LL (95%)	3.1

Specimen 41983	IRT
N*	213
Outliers	12
Mean	153.6
UL (95%)	232.7
LL (95%)	74.6

Specimen 41984	IRT
N*	199
Outliers	12
Mean	5.4
UL (95%)	10.6
LL (95%)	0.2

Specimen 41985	IRT
N*	215
Outliers	10
Mean	109.4
UL (95%)	177.0
LL (95%)	41.9

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