



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

Year: 2018 Quarter: 1

Acylcarnitines

Specimen 11861	C0(L)	C3	C3DC	C3DC+ C4OH	C4	C4OH	C5	C5:1	C5DC	C5OH	C6
N*	294	291	120	107	269	112	299	263	280	260	276
Outliers	16	15	8	10	18	7	19	15	20	15	19
Mean	13.42	0.54	0.04	0.04	0.10	0.06	0.05	0.02	0.04	0.26	1.03
UL (95%)	18.39	0.79	0.11	0.08	0.18	0.13	0.09	0.05	0.08	0.40	1.32
LL (95%)	8.44	0.30	0.00	0.01	0.02	0.00	0.02	0.00	0.00	0.12	0.74

Specimen 11862	C0(L)	C3	C3DC	C3DC+ C4OH	C4	C4OH	C5	C5:1	C5DC	C5OH	C6
N*	296	291	120	110	268	116	293	260	293	265	280
Outliers	14	15	8	7	19	3	25	18	7	10	15
Mean	19.01	0.58	0.04	0.08	0.14	0.11	0.09	0.02	1.25	0.34	0.03
UL (95%)	27.70	0.82	0.11	0.15	0.21	0.21	0.13	0.04	2.16	0.51	0.07
LL (95%)	10.31	0.35	0.00	0.02	0.07	0.02	0.05	0.00	0.33	0.16	0.00

Specimen 11863	C0(L)	C3	C3DC	C3DC+ C4OH	C4	C4OH	C5	C5:1	C5DC	C5OH	C6
N*	298	291	120	105	268	111	297	265	281	264	275
Outliers	12	15	8	12	18	7	21	13	19	11	20
Mean	15.56	0.47	0.04	0.04	0.05	0.06	0.04	0.02	0.04	0.34	0.02
UL (95%)	20.85	0.67	0.10	0.06	0.09	0.11	0.07	0.05	0.09	0.53	0.05
LL (95%)	10.26	0.26	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.14	0.00

Specimen 11864	C0(L)	C3	C3DC	C3DC+ C4OH	C4	C4OH	C5	C5:1	C5DC	C5OH	C6
N*	295	290	120	109	269	111	303	263	285	266	277
Outliers	15	16	8	8	17	7	14	15	15	9	18
Mean	16.09	0.46	0.04	0.04	0.05	0.06	0.04	0.02	0.04	0.34	0.02
UL (95%)	21.76	0.65	0.10	0.07	0.10	0.12	0.08	0.05	0.09	0.53	0.05
LL (95%)	10.41	0.27	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.14	0.00

Specimen 11865	C0(L)	C3	C3DC	C3DC+ C4OH	C4	C4OH	C5	C5:1	C5DC	C5OH	C6
N*	294	293	121	106	268	114	299	264	280	269	274
Outliers	16	13	7	11	19	5	19	14	20	6	21
Mean	19.99	10.22	0.04	0.08	0.14	0.11	0.10	0.02	0.04	0.35	0.02
UL (95%)	29.78	13.52	0.12	0.11	0.20	0.19	0.14	0.05	0.08	0.55	0.06
LL (95%)	10.20	6.93	0.00	0.04	0.07	0.03	0.05	0.00	0.00	0.15	0.00

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Acylcarnitines

Specimen 11861	C8	C10	C10:1	C10:2	C14	C14:1	C16	C16OH	C18	C18:1	C18OH
N*	305	292	259	179	272	280	285	278	275	259	223
Outliers	15	16	16	11	19	19	16	19	9	13	16
Mean	1.57	0.74	0.49	0.01	0.07	0.06	0.45	0.01	0.47	0.59	0.01
UL (95%)	2.07	1.08	0.79	0.03	0.11	0.09	0.60	0.03	0.62	0.84	0.02
LL (95%)	1.08	0.40	0.19	0.00	0.03	0.02	0.30	0.00	0.31	0.35	0.00

Specimen 11862	C8	C10	C10:1	C10:2	C14	C14:1	C16	C16OH	C18	C18:1	C18OH
N*	296	291	261	180	270	280	292	285	274	257	226
Outliers	24	17	14	10	21	19	9	12	10	15	13
Mean	0.02	0.03	0.02	0.01	0.05	0.04	0.82	0.01	0.65	0.78	0.01
UL (95%)	0.05	0.06	0.05	0.03	0.09	0.08	1.09	0.03	0.85	1.09	0.02
LL (95%)	0.00	0.00	0.00	0.00	0.02	0.01	0.54	0.00	0.44	0.48	0.00

Specimen 11863	C8	C10	C10:1	C10:2	C14	C14:1	C16	C16OH	C18	C18:1	C18OH
N*	301	290	258	183	272	276	294	287	270	259	223
Outliers	19	18	17	7	19	23	7	10	14	13	16
Mean	0.01	0.02	0.02	0.01	0.05	0.02	0.86	0.01	0.60	0.70	0.01
UL (95%)	0.04	0.05	0.04	0.03	0.09	0.05	1.14	0.03	0.78	0.98	0.02
LL (95%)	0.00	0.00	0.00	0.00	0.01	0.00	0.59	0.00	0.41	0.43	0.00

Specimen 11864	C8	C10	C10:1	C10:2	C14	C14:1	C16	C16OH	C18	C18:1	C18OH
N*	306	287	258	176	278	286	292	284	273	258	224
Outliers	14	21	17	14	13	13	9	13	11	14	15
Mean	0.02	0.03	0.02	0.01	1.11	0.91	0.85	0.01	0.59	0.71	0.01
UL (95%)	0.04	0.06	0.06	0.03	1.50	1.35	1.12	0.03	0.77	0.98	0.02
LL (95%)	0.00	0.00	0.00	0.00	0.72	0.46	0.58	0.00	0.41	0.44	0.00

Specimen 11865	C8	C10	C10:1	C10:2	C14	C14:1	C16	C16OH	C18	C18:1	C18OH
N*	312	301	257	176	277	282	291	277	272	256	226
Outliers	8	7	18	14	14	17	10	20	12	16	12
Mean	0.02	0.03	0.02	0.01	0.06	0.05	0.81	0.01	0.65	0.78	0.01
UL (95%)	0.06	0.07	0.05	0.03	0.10	0.08	1.06	0.02	0.84	1.06	0.02
LL (95%)	0.00	0.00	0.00	0.00	0.02	0.01	0.56	0.00	0.45	0.50	0.00

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

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Amino Acids

Specimen 11851	Arg	Cit	Leu	Met	Phe	SUAC	Tyr	Val
N*	250	272	308	281	398	120	306	271
Outliers	16	13	3	16	15	8	10	3
Mean	6.56	27.24	179.40	15.91	256.95	0.47	69.60	181.47
UL (95%)	11.3	37.2	244.2	21.1	333.6	1.0	90.8	247.0
LL (95%)	1.8	17.3	114.6	10.8	180.3	0.0	48.4	115.9

Specimen 11852	Arg	Cit	Leu	Met	Phe	SUAC	Tyr	Val
N*	252	271	310	283	389	121	305	271
Outliers	14	14	1	14	21	7	10	3
Mean	6.42	27.36	179.96	15.60	62.23	0.49	69.10	181.16
UL (95%)	11.0	36.7	246.9	20.8	82.9	1.1	89.5	245.6
LL (95%)	1.8	18.0	113.0	10.4	41.5	0.0	48.7	116.7

Specimen 11853	Arg	Cit	Leu	Met	Phe	SUAC	Tyr	Val
N*	265	275	309	291	384	121	305	266
Outliers	1	10	2	6	27	7	11	8
Mean	148.50	128.40	175.91	161.92	63.59	0.48	637.54	177.14
UL (95%)	263.0	168.7	242.1	209.9	89.6	1.1	816.6	236.7
LL (95%)	34.0	88.1	109.8	114.0	37.6	0.0	458.5	117.6

Specimen 11854	Arg	Cit	Leu	Met	Phe	SUAC	Tyr	Val
N*	255	270	306	285	383	124	305	272
Outliers	11	15	5	12	27	7	11	2
Mean	8.29	27.55	151.17	20.26	51.95	5.67	626.51	167.05
UL (95%)	14.6	36.8	206.8	27.4	74.7	10.8	803.7	227.2
LL (95%)	1.9	18.3	95.6	13.1	29.2	0.6	449.3	106.9

Specimen 11855	Arg	Cit	Leu	Met	Phe	SUAC	Tyr	Val
N*	254	277	309	289	383	120	304	272
Outliers	12	8	2	8	26	8	12	2
Mean	8.48	28.41	154.34	20.18	50.27	0.49	62.21	171.18
UL (95%)	14.1	38.9	210.9	26.9	68.8	1.1	81.6	233.3
LL (95%)	2.8	18.0	97.8	13.4	31.7	0.0	42.8	109.0

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

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Hormones and Galactose

Specimen 11811	T4	TSH	17OHP	TGal
N*	70	310	253	166
Outliers	4	24	13	4
Mean	1.6	97.7	4.5	2.9
UL (95%)	2.5	126.2	7.0	5.2
LL (95%)	0.7	69.1	2.0	0.6

Specimen 11812	T4	TSH	17OHP	TGal
N*	75	321	244	163
Outliers	4	12	15	6
Mean	13.4	13.1	1.5	25.2
UL (95%)	17.6	18.7	3.8	36.1
LL (95%)	9.2	7.5	0.0	14.2

Specimen 11813	T4	TSH	17OHP	TGal
N*	76	319	250	164
Outliers	3	15	18	4
Mean	14.5	10.2	6.5	2.5
UL (95%)	18.7	14.3	10.3	5.0
LL (95%)	10.2	6.1	2.6	0.0

Specimen 11814	T4	TSH	17OHP	TGal
N*	77	319	245	163
Outliers	2	15	15	6
Mean	13.6	12.9	1.5	25.7
UL (95%)	18.2	18.6	4.0	37.9
LL (95%)	9.0	7.2	0.0	13.4

Specimen 11815	T4	TSH	17OHP	TGal
N*	75	318	259	166
Outliers	4	16	9	3
Mean	15.5	9.0	79.3	2.5
UL (95%)	20.3	12.8	112.9	4.5
LL (95%)	10.8	5.1	45.7	0.5

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

Overall Statistics

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Immunoreactive Trypsinogen

Specimen 11881	IRT
N*	202
Outliers	15
Mean	143.6
UL (95%)	188.0
LL (95%)	99.2

Specimen 11882	IRT
N*	203
Outliers	14
Mean	224.1
UL (95%)	295.1
LL (95%)	153.0

Specimen 11883	IRT
N*	208
Outliers	8
Mean	15.5
UL (95%)	24.0
LL (95%)	7.0

Specimen 11884	IRT
N*	203
Outliers	15
Mean	45.0
UL (95%)	61.0
LL (95%)	28.9

Specimen 11885	IRT
N*	201
Outliers	17
Mean	34.5
UL (95%)	48.5
LL (95%)	20.5

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