

Repeat Requests 21191
 Borderlines 9201
 Referrals 1775

Specimens Received
 Initial Valid 188,872
 Initial Invalid 19,642
 Total Newborns 208,514
 Repeat Specimens 38,328
 Total Specimens 246,842

Screened Disorders	Analytes	Borderline	Referrals	# Confirmed with Disease (Preliminary)	
Endocrine Disorders					
Congenital Adrenal Hyperplasia	17-hydroxyprogesterone	976	98	Congenital adrenal hyperplasia - 21-Hydroxylase deficiency 12 Congenital adrenal hyperplasia, other enzyme deficiency 0	
Congenital Hypothyroidism	Thyroxine, TSH	4830	612	Primary Congenital Hypothyroidism 104 Secondary Congenital Hypothyroidism 1 Other 208	
Hemoglobin Disorders					
Hemoglobin Disorders	Hemoglobin SS	N/A	106	Hemoglobin S + S (sickle cell) disease 91	
	Hemoglobin SC	N/A	57	Hemoglobin S + C disease 56	
	Hemoglobin CC	N/A	17	Hemoglobin C + C disease 13	
	Other Hemoglobins	N/A	26	Other Hemoglobinopathies 22	
Infectious Disease					
HIV	HIV Antibodies	N/A	258	Confirmed by diagnosis developed by the AIDS Institute	
Amino Acid Disorders					
Maple Syrup Urine Disease	Leucine	114	3	Maple Syrup Urine disease 1 Hydroxyprolinemia 0	
Homocystinuria	Methionine	518	11	Homocystinuria 0 Hypermethioninemia 0	
Phenylketonuria	Phenylalanine	183	21	Phenylketonuria (PKU) 16 Hyperphenylalaninemia 3	
Tyrosinemia Type I	Succinylacetone	0	0	Tyrosinemia Type 1 0	
Tyrosinemia Type II, III	Tyrosine	256	11	Tyrosinemia Type 2 0 Tyrosinemia Type 3 0	
Fatty Acid Oxidation Disorders					
Carnitine uptake defect	Free Carnitine (C0), Total Acylcarnitines (SUM AC)	115	22	Carnitine uptake defect (CUD) 5	
Carnitine palmitoyltransferase 1 deficiency	C0/(C16 + C18)	54	2	Carnitine palmitoyltransferase 1 (CPT1) deficiency 0	
Carnitine palmitoyltransferase 2 deficiency/Carnitine/Acylcarnitine translocase deficiency	Hexadecanoylcarnitine (C16), Octadecanoylcarnitine (C18:1)	0	11	Carnitine palmitoyltransferase 2 (CPT2) deficiency 2	
2,4-Dienoyl-CoA reductase deficiency	Decadienoylcarnitine (C10:2)	42	0	2,4-Dienoyl-CoA (2,4Di) reductase deficiency 0	
Long-chain 3-hydroxyacyl-CoA dehydrogenase deficiency/Trifunctional protein deficiency	Hydroxyhexadecanoylcarnitine (C16OH), Hydroxyoctadecanoylcarnitine (C18:1OH)	2	5	Long-chain 3-hydroxyacyl-CoA dehydrogenase (LCHAD) deficiency 0 Trifunctional protein (TFP) deficiency 0	
Multiple acyl-CoA dehydrogenase deficiency/Medium-chain acyl-CoA dehydrogenase deficiency/Medium-chain 3-keto acyl-CoA thiolase deficiency	Hexanoylcarnitine (C6), Octanoylcarnitine (C8)	229	15	Medium-chain acyl-CoA dehydrogenase (MCAD) deficiency 7 Multiple acyl-CoA dehydrogenase (MAD) deficiency - glutaric acidemia type II (GA-II) 1 Medium-chain 3-keto acyl-CoA thiolase (MCKAT) deficiency 0	
Very long-chain acyl-CoA dehydrogenase deficiency	Tetradecanoylcarnitine (C14), Tetradecenoylcarnitine (C14:1)	0	9	Very long-chain acyl-CoA dehydrogenase (VLCAD) deficiency 3	

Screened Disorders	Analytes	Borderline	Referrals	# Confirmed with Disease	
Short-chain acyl-CoA dehydrogenase deficiency	Butyrylcarnitine (C4)	172	23	Short-chain acyl-CoA dehydrogenase (SCAD) deficiency	8
				Isobutyryl-CoA dehydrogenase (IBCD) deficiency	1
Medium/short-chain hydroxyl CoA dehydrogenase deficiency	Hydroxybutyrylcarnitine (C4OH), Hydroxyhexanoylcarnitine (C6OH)	77	1	Medium/short-chain hydroxyl CoA dehydrogenase (M/SCHAD) deficiency	0
Organic Acid Disorders					
Mitochondrial acetoacetyl-CoA thiolase deficiency/2-Methyl-3-hydroxybutyryl-CoA-dehydrogenase deficiency	Tiglylcarnitine (C5:1)	21	0	Mitochondrial acetoacetyl-CoA thiolase deficiency - beta-ketothiolase (BKT) deficiency	0
				2-Methyl-3-hydroxybutyryl-CoA-dehydrogenase (MHBD) deficiency	0
Glutaryl-CoA dehydrogenase deficiency	Glutarylcarnitine (C5DC)	72	6	Glutaryl-CoA dehydrogenase deficiency - glutaric aciduria (GA-I)	1
Isovaleryl CoA dehydrogenase deficiency/2-methylbutyryl-CoA dehydrogenase deficiency	Isovalerylcarnitine (C5)	376	14	Isovaleryl CoA dehydrogenase deficiency - isovaleric acidemia (IVA)	0
				2-Methylbutyrylglycinuria (2MBG) - 2-methylbutyryl-CoA dehydrogenase (2MBCD) deficiency - short/branched chain acyl-CoA dehydrogenase (SBCAD) deficiency	0
3-Methylcrotonyl-CoA carboxylase deficiency/2-Methyl-3-hydroxybutyryl-CoA dehydrogenase deficiency/3-Methylglutaconic aciduria	Hydroxyisovalerylcarnitine (C5OH)	70	63	3-Methylcrotonyl-CoA carboxylase (3MCC) deficiency	8
				3-Hydroxy-3-methylglutaryl-CoA lyase (HMG) deficiency	0
				2-Methyl-3-hydroxybutyryl-CoA dehydrogenase (MHBD) deficiency - 2-Methyl-3-hydroxybutric acidemia (2M3HBA)	0
				3-Methylglutaconic aciduria (3MGA)	0
Malonyl-CoA decarboxylase deficiency	Malonylcarnitine (C3DC)	4	0	Malonyl-CoA decarboxylase deficiency - Malonic Aciduria (MA)	0
Propionyl-CoA carboxylase deficiency/Methylmalonyl-CoA mutase deficiency	Propionylcarnitine (C3), Methylmalonylcarnitine (C4DC)	307	36	Propionyl-CoA carboxylase deficiency (PA)	1
				Methylmalonyl-CoA mutase deficiency (MMA)	1
				Cobalamin A/B deficiency	0
				Cobalamin C/D/F deficiency	2
				Multiple Carboxylase deficiency	0
Urea Cycle Disorders					
Argininosuccinic aciduria/Citrullinemia	Citrulline	64	10	Argininosuccinic aciduria	0
Argininemia	Arginine	26	1	Citrullinemia	1
				Argininemia	1
Lysosomal Storage Disorders					
Krabbe Disease	Galactocerebrosidase	0	19	Krabbe disease possible late onset *	1
Mucopolysaccharidosis Type I	alpha-L-iduronidase	0	4	MPS 1	0
Pompe Disease	Alpha-glucosidase	0	18	Infantile-onset Pompe Disease	0
				Possible late-onset Pompe disease	10
Other Genetic Conditions					
Adrenoleukodystrophy	C26:0 Lysophosphatidylcholine (C26:0 LPC)	15	11	Male with X-linked Adrenoleukodystrophy (X-ALD)	2
				Female carrier of X-ALD	4
				Zellweger Syndrome	2
				Other Peroxisomal Biogenesis Disorder	2
Biotinidase Deficiency	Biotinidase	6	7	Biotinidase Deficiency	6
Cystic Fibrosis (CF)	Immunoreactive Trypsinogen	N/A	125	Cystic Fibrosis	21
Spinal Muscular Atrophy (SMA)	SMN1 gene, exon 7 deletion	N/A	5	Spinal Muscular Atrophy	5
Guanidinoacetate methyltransferase deficiency (GAM)	Guanidinoacetate	30	4	Guanidinoacetate methyltransferase deficiency	0
Galactosemia	Galactose Transferase	17	7	Galactosemia	2
Severe Combined Immunodeficiency (SCID)	T-cell receptor excision circles (TRECS)	625	137	Classic SCID	3
				Leaky SCID	0
				Variant SCID	0
Total		9201	1775		627

Data based on infants born in 2022 whose specimens were received before 4/19/23.

* Infants classified as confirmed for Krabbe disease include those at high risk for disease based on confirmatory enzyme activity testing