

Repeat Requests 21438  
 Borderlines 14269  
 Referrals 1711

**Specimens Received**  
 Initial Valid 184,838  
 Initial Invalid 19,667  
 Total Newborns 204,505  
 Repeat Specimens 37,872  
 Total Specimens 242,779

Screened Disorders	Analytes	Borderline	Referrals	# Confirmed with Disease
<b>Endocrine Disorders</b>				
Congenital Adrenal Hyperplasia	17-hydroxyprogesterone	1170	118	Congenital adrenal hyperplasia - 21-Hydroxylase deficiency Congenital adrenal hyperplasia, other enzyme deficiency
Congenital Hypothyroidism	Thyroxine, TSH	4405	608	Primary Congenital Hypothyroidism Secondary Congenital Hypothyroidism Other
<b>Hemoglobin Disorders</b>				
Hemoglobin Disorders	Hemoglobin SS	N/A	92	Hemoglobin S + S (sickle cell) disease
	Hemoglobin SC	N/A	59	Hemoglobin S + C disease
	Hemoglobin CC	N/A	14	Hemoglobin C + C disease
	Other Hemoglobins	N/A	36	Other Hemoglobinopathies
	Hemoglobin AS Trait	4168	N/A	
	Hemoglobin AC Trait	1221	N/A	
	Hemoglobin AD Trait	87	N/A	
	Hemoglobin A VAR Trait	100	N/A	
<b>Infectious Disease</b>				
HIV	HIV Antibodies	N/A	297	Confirmed by diagnosis developed by the AIDS Institute
<b>Amino Acid Disorders</b>				
Maple Syrup Urine Disease	Leucine	91	2	Maple Syrup Urine disease Hydroxyprolinemia
Homocystinuria	Methionine	417	5	Homocystinuria Hypermethioninemia
Phenylketonuria	Phenylalanine	186	25	Phenylketonuria (PKU) Hyperphenylalaninemia
Tyrosinemia Type I	Succinylacetone	0	1	Tyrosinemia Type 1
Tyrosinemia Type II, III	Tyrosine	187	8	Tyrosinemia Type 2 Tyrosinemia Type 3
<b>Fatty Acid Oxidation Disorders</b>				
Carnitine uptake defect	Free Carnitine (C0), Total Acylcarnitines (SUM AC)	308	9	Carnitine uptake defect (CUD)
Carnitine palmitoyltransferase 1 deficiency	C0/(C16 + C18)	88	4	Carnitine palmitoyltransferase 1 (CPT1) deficiency
Carnitine palmitoyltransferase 2 deficiency/Carnitine/Acylcarnitine translocase deficiency	Hexadecanoylcarnitine (C16), Octadecenoylcarnitine (C18:1)	1	5	Carnitine palmitoyltransferase 2 (CPT2) deficiency
2,4-Dienoyl-CoA reductase deficiency	Decadienoylcarnitine (C10:2)	50	0	2,4-Dienoyl-CoA (2,4Di) reductase deficiency
Long-chain 3-hydroxyacyl-CoA dehydrogenase deficiency/Trifunctional protein deficiency	Hydroxyhexadecanoylcarnitine (C16OH), Hydroxyoctadecenoylcarnitine (C18:1OH)	1	2	Long-chain 3-hydroxyacyl-CoA dehydrogenase (LCHAD) deficiency Trifunctional protein (TFP) deficiency
Multiple acyl-CoA dehydrogenase deficiency/ Medium-chain acyl-CoA dehydrogenase deficiency/Medium-chain 3-keto acyl-CoA thiolase deficiency	Hexanoylcarnitine (C6), Octanoylcarnitine (C8)	215	20	Medium-chain acyl-CoA dehydrogenase (MCAD) deficiency Multiple acyl-CoA dehydrogenase (MAD) deficiency - glutaric acidemia type II (GA-II) Medium-chain 3-keto acyl-CoA thiolase (MCKAT) deficiency
Very long-chain acyl-CoA dehydrogenase deficiency	Tetradecanoylcarnitine (C14), Tetradecenoylcarnitine (C14:1)	0	13	Very long-chain acyl-CoA dehydrogenase (VLCAD) deficiency

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Short-chain acyl-CoA dehydrogenase deficiency	Butyrylcarnitine (C4)		104	19	Short-chain acyl-CoA dehydrogenase (SCAD) deficiency	8
					Isobutyryl-CoA dehydrogenase (IBCD) deficiency	0
Medium/short-chain hydroxyl CoA dehydrogenase deficiency	Hydroxybutyrylcarnitine (C4OH), Hydroxyhexanoylcarnitine (C6OH)		69	2	Medium/short-chain hydroxyl CoA dehydrogenase (M/SCHAD) deficiency	0
<b>Organic Acid Disorders</b>						
Mitochondrial acetoacetyl-CoA thiolase deficiency/2-Methyl-3-hydroxybutyryl-CoA-dehydrogenase deficiency	Tiglylcarnitine (C5:1)		15	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)		93	10	Glutaryl-CoA dehydrogenase deficiency - glutaric aciduria (GA-I)	4
Isovaleryl CoA dehydrogenase deficiency/2-methylbutyryl-CoA dehydrogenase deficiency	Isovalerylcarnitine (C5)		385	8	Isovaleryl CoA dehydrogenase deficiency - isovaleric acidemia (IVA)	2
					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)		49	54	3-Methylcrotonyl-CoA carboxylase (3MCC) deficiency	7
					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	1	Malonyl-CoA decarboxylase deficiency - Malonic Aciduria (MA)	1
Propionyl-CoA carboxylase deficiency/Methylmalonyl-CoA mutase deficiency	Propionylcarnitine (C3), Methylmalonylcarnitine (C4DC)		256	30	Propionyl-CoA carboxylase deficiency (PA)	3
					Methylmalonyl-CoA mutase deficiency (MMA)	1
					Cobalamin A/B deficiency	0
					Cobalamin C/D/F deficiency	0
					Multiple Carboxylase deficiency	0
<b>Urea Cycle Disorders</b>						
Argininosuccinic aciduria/Citrullinemia	Citrulline		52	13	Argininosuccinic aciduria	0
					Citrullinemia	4
Argininemia	Arginine		30	1	Argininemia	1
<b>Lysosomal Storage Disorders</b>						
Krabbe Disease	Galactocerebrosidase		0	13	Krabbe disease possible late onset *	3
Mucopolysaccharidosis Type I	Alpha-L-iduronidase		0	13	MPS 1	2
Pompe Disease	Alpha-glucosidase		0	12	Infantile-onset Pompe Disease	0
					Possible late-onset Pompe disease	8
<b>Other Genetic Conditions</b>						
Adrenoleukodystrophy	C26:0 Lysophosphatidylcholine (C26:0 LPC)		8	11	Male with X-linked Adrenoleukodystrophy (X-ALD)	4
					Female carrier of X-ALD	4
					Zellweger Syndrome	0
					Other Peroxisomal Biogenesis Disorder	0
Biotinidase Deficiency	Biotinidase		9	4	Biotinidase Deficiency	4
Cystic Fibrosis (CF)	Immunoreactive Trypsinogen		N/A	104	Cystic Fibrosis	25
Spinal Muscular Atrophy (SMA)	SMN1 gene, exon 7 deletion		N/A	5	Spinal Muscular Atrophy	5
Guanidinoacetate methyltransferase deficiency (GAMT)	Guanidinoacetate		43	0	Guanidinoacetate methyltransferase deficiency	0
Galactosemia	Galactose Transferase		11	2	Galactosemia	2
Severe Combined Immunodeficiency (SCID)	T-cell receptor excision circles (TRECS)		446	91	Classic SCID	2
					Leaky SCID	1
					Variant SCID	2
<b>Total</b>			<b>14269</b>	<b>1711</b>		<b>626</b>

Data based on infants born in 2023 whose specimens were received before 4/4/24.

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