



The Newborn Screening Laboratory screens all Michigan Infants for more than fifty disorders.

**Amino Acid Disorders**

1. Argininemia (ARG)
2. Argininosuccinic acidemia (ASA)
3. Citrullinemia Type I (CIT-I)
4. Citrullinemia Type II (CIT-II)
5. Homocystinuria (HCY)
6. Hypermethioninemia (MET)
7. Maple syrup urine disease (MSUD)
8. Phenylketonuria (PKU)
9. Benign hyperphenylalaninemia defect (H-PHE)
10. Biotpterin cofactor biosynthesis defect (BIOPT-BS)
11. Biotpterin cofactor regeneration defect (BIOPT-REG)
12. Tyrosinemia Type I (TYR-1)
13. Tyrosinemia Type II (TYR-II)
14. Tyrosinemia Type III (TYR-III)

**Fatty Acid Oxidation Disorders**

15. Carnitine acylcarnitine translocase deficiency (CACT)
16. Carnitine palmitoyltransferase I deficiency (CPT-1A)
17. Carnitine palmitoyltransferase II deficiency (CPT-II)
18. Carnitine uptake defect (CUD)
19. Dienoyl-CoA reductase deficiency (DERED)
20. Glutaric acidemia type II (GA-2)
21. Long-chain L-3-hydroxy acyl-CoA dehydrogenase deficiency (LCHAD)
22. Medium/short-chain L-3-hydroxy acyl-CoA dehydrogenase deficiency (M/SCHAD)
23. Medium-chain acyl-CoA dehydrogenase deficiency (MCAD)
24. Medium-chain ketoacyl-CoA thiolase deficiency (MCKAT)
25. Short-chain acyl-CoA dehydrogenase deficiency (SCAD)
26. Trifunctional protein deficiency (TFP)
27. Very long-chain acyl-CoA dehydrogenase deficiency (VLCAD)

**Organic Acid Disorders**

28. 2-Methyl-3-hydroxy butyric aciduria (2M3HBA)
29. 2-Methylbutyryl-CoA dehydrogenase deficiency (2MBG)
30. 3-hydroxy 3-methylglutaric glutaric aciduria (HMG)
31. 3-Methylcrotonyl-CoA carboxylase deficiency (3-MCC)
32. 3-Methylglutaconic aciduria (3MGA)

33. Beta-ketothiolase deficiency (BKT)
34. Glutaric acidemia type I (GA1)
35. Isobutyryl-CoA dehydrogenase deficiency (IBG)
36. Isovaleric acidemia (IVA)
37. Malonic Acidemia (MAL)
38. Methylmalonic acidemia cobalamin disorders (Cbl A,B)
39. Methylmalonic aciduria with homocystinuria (Cbl C,D)
40. Methylmalonic acidemia methylmalonyl-CoA mutase (MUT)
41. Multiple carboxylase deficiency (MCD)
42. Propionic acidemia (PROP)

**Hemoglobinopathies**

43. S/Beta thalassemia
44. S/C disease
45. Sick cell anemia
46. Variant hemoglobinopathies
47. Hemoglobin H disease

**Endocrine Disorders**

48. Congenital adrenal hyperplasia (CAH)
49. Congenital hypothyroidism (CH)

**Other Disorders**

50. Biotinidase deficiency (BIOT)
51. Galactosemia (GALT)
52. Cystic fibrosis (CF)
53. Severe combined immunodeficiency (SCID)
54. T-cell related lymphocyte deficiencies
55. Hearing
56. Critical Congenital Heart Disease (CCHD)

**Disorders Coming Soon**

These conditions have been approved for addition to Michigan's panel but implementation is in progress and screening has not yet begun.

- Glycogen Storage Disease Type II (Pompe)
- Mucopolysaccharidosis Type I (MPS I)
- X-linked Adrenoleukodystrophy (X-ALD)