

AGCT GENOMICS newborn screening panel (NBS) screens out following mentioned disorders based on latest technology in newborns.

Fatty Acid Oxidation disorders

Carnitine/Acylcarnitine Translocase Deficiency (Translocase)
 Carnitine/Acylcarnitine Transferase Deficiency Type II
 3-Hydroxy Long Chain Acyl-CoA Dehydrogenase Deficiency (LCHAD)
 2,4-Dienoyl-CoA Reductase Deficiency
 Medium Chain Acyl-CoA Dehydrogenase Deficiency (MCAD)
 Multiple Acyl-CoA Dehydrogenase Deficiency (MADD or Glutaric Acidemia-Type II)
 Neonatal Carnitine Palmitoyl Transferase Deficiency Type II (CPT-II)
 Short Chain Acyl-CoA Dehydrogenase Deficiency (SCAD)
 Short Chain Hydroxy Acyl-CoA Dehydrogenase Deficiency (SCHAD)
 Trifunctional Protein Deficiency (TFP Deficiency)
 Very Long Chain Acyl-CoA Dehydrogenase Deficiency (VLCAD)

Organic Acid Disorders

3-Hydroxy-3-Methylglutaryl-CoA Lyase Deficiency (HMG)
 Glutaric Acidemia Type I (GA I)
 Isobutyryl-CoA Dehydrogenase Deficiency
 Isovaleric Acidemia (IVA)
 Acute onset
 Chronic
 2-Methylbutyryl-CoA Dehydrogenase Deficiency
 3-Methylcrotonyl-CoA Carboxylase Deficiency (3MCC Def.)
 3-Methylglutaconyl-CoA Hydratase Deficiency
 Mitochondrial Acetoacetyl-CoA Thiolase Deficiency (3-Ketothiolase Def.)
 Propionic Acidemia (PA)
 Acute onset
 Late onset
 Malonic Aciduria
 Methylmalonic Acidemias
 Methylmalonyl-CoA Mutase Deficiency 0
 Methylmalonyl-CoA Mutase Deficiency +
 Some Adenosylcobalamin Synthesis Defects
 Maternal Vitamin B12 Deficiency
 Multiple CoA Carboxylase Deficiency

Biotinidase Deficiency

Complete Deficiency
 Partial Deficiency

Congenital Adrenal Hyperplasia

Salt Wasting 21-Hydroxylase Deficiency
 Simple Verilizing 21-Hydroxylase Deficiency

Congenital Hypothyroidism

Cystic Fibrosis (not valid after 90 days of age)*

Amino Acid Disorders

Argininemia
 Argininosuccinic Aciduria (ASA Lyase Deficiency)
 Acute onset
 Late onset
 Carbamoylphosphate Synthetase Deficiency
 Citrullinemia (ASA Synthetase Deficiency)
 Acute onset
 Late onset
 Homocystinuria
 Hypermethioninemia
 Hyperammonemia, Hyperornithinemia, Homocitrullinuria Syndrome (HHH) 1
 Hyperornithinemia with Gyral Atrophy
 Maple Syrup Urine Disease (MSUD)
 Classical MSUD
 Intermediate MSUD
 5-Oxoprolinuria (Pyroglutamic Aciduria)¹
 Phenylketonuria (PKU)
 Classical PKU
 Hyperphenylalaninemia
 Biopterin Cofactor Deficiencies
 Tyrosinemia
 Transient Neonatal Tyrosinemia
 Tyrosinemia Type I (Tyr I)²
 Tyrosinemia Type II (Tyr II)
 Tyrosinemia Type III (Tyr III)

OTHER OBSERVATIONS

Hyperalimentation
 Liver Disease
 Medium Chain Triglyceride Oil Administration
 Presence of EDTA Anticoagulants in blood specimen
 Treatment with Benzoate, Pyvalic Acid, or Valproic Acid
 Carnitine Uptake Deficiency

Galactosemia

Galactokinase Deficiency
 Galactose-1-Phosphate Uridyltransferase Deficiency
 Galactose-4-Epimerase Deficiency
Glucose-6 Phosphate Dehydrogenase Deficiency
Sickle Cell & other Hemoglobinopathies
 Hemoglobin S, S/C, S/Beta-Thalassemia, C, & E Diseases

The analyses conducted by AGCT GENOMICS Genetics produce results that can be used by qualified physicians in the diagnosis of disorders described herein. Evidence of these conditions will be detected in the vast majority of affected individuals; however, due to genetic variability, age of the patient at time of specimen collection, quality of the specimen, health status of the patient, and other variables, such conditions may not be detected in all affected patients

*For information on DNA Carrier Testing for children over 90 days of age, please call 92-313-1513151