## DISORDERS INCLUDED IN THE STEPONE® NEWBORN SCREENING PANEL

## DISORDERS DETECTED BY TANDEM MASS SPECTROMETRY **Acylcarnitine Profile Amino Acid Profile Fatty Acid Oxidation Disorders Amino Acid Disorders** Carnitine/Acylcarnitine Translocase Deficiency Argininemia Carnitine Palmitoyl Transferase Deficiency Type I1 Argininosuccinic Aciduria 3-Hydroxy Long Chain Acyl-CoA Dehydrogenase Deficiency 5-Oxoprolinuria1 2,4-Dienoyl-CoA Reductase Deficiency1 Carbamoylphosphate Synthetase Deficiency<sup>1</sup> Medium Chain Acyl-CoA Dehydrogenase Deficiency Citrullinemia Multiple Acyl-CoA Dehydrogenase Deficiency Homocystinuria Neonatal Carnitine Palmitoyl Transferase Deficiency Type II Hypermethioninemia Short Chain Acyl-CoA Dehydrogenase Deficiency Hyperammonemia, Hyperornithinemia, Homocitrullinuria Short Chain Hydroxy Acyl-CoA Dehydrogenase Deficiency Syndrome1 Trifunctional Protein Deficiency Hyperornithinemia with Gyral Atrophy<sup>1</sup> Very Long Chain Acyl-CoA Dehydrogenase Deficiency Maple Syrup Urine Disease **Organic Acid Disorders** Phenylketonuria 3-Hydroxy-3-Methylglutaryl-CoA Lyase Deficiency Classical/Hyperphenylalaninemia **Biopterin Cofactor Deficiencies** Glutaric Acidemia Type I Isobutyryl-CoA Dehydrogenase Deficiency Tyrosinemia Isovaleric Acidemia Transient Neonatal Tyrosinemia 2-Methylbutyryl-CoA Dehydrogenase Deficiency Tyrosinemia Type I<sup>2</sup> 3-Methylcrotonyl-CoA Carboxylase Deficiency Tyrosinemia Type II 3-Methylglutaconyl-CoA Hydratase Deficiency Tyrosinemia Type III Methylmalonic Acidemias **Other Observations** Methylmalonyl-CoA Mutase Deficiency Hyperalimentation Some Adenosylcobalamin Synthesis Defects Liver Disease Maternal Vitamin B12 Deficiency Medium Chain Triglyceride Oil Administration Mitochondrial Acetoacetyl-CoA Thiolase Deficiency Presence of EDTA Anticoagulants in blood specimen Treatment with Benzoate, Pyvalic Acid, or Valproic Acid Propionic Acidemia Multiple CoA Carboxylase Deficiency Carnitine Uptake Deficiency<sup>1</sup> Malonic Aciduria Lysosomal Storage Disorders (LSD) X-Linked Adrenoleukodystrophy (X-ALD) Fabry, Gaucher, Krabbe Disease, Mucopolysaccharidosis Type I (MPS-I), Niemann-Pick (A/B), and Pompe

## **DISORDERS DETECTED BY OTHER TECHNOLOGIES**

Biotinidase Deficiency	Galactosemia
Complete Deficiency	Galactokinase Deficiency
Partial Deficiency	Galactose-1-Phosphate Uridyltransferase Deficiency
Congenital Adrenal Hyperplasia	Galactose-4-Epimerase Deficiency
Salt Wasting 21-Hydroxylase Deficiency	Glucose-6-Phosphate Dehydrogenase Deficiency
Simple Virilizing 21-Hydroxylase Deficiency	Severe Combined Immunodeficiency (SCID)
Congenital Hypothyroidism	Sickle Cell and other Hemoglobinopathies
Cystic Fibrosis (not valid after 90 days of age)*	Hemoglobin S, S/C, S/Beta-Thalassemia, C, & E Diseases
	Spinal Muscular Atrophy (SMA)

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

- 1 There is a lower probability of detection of this condition during the immediate newborn period.
- 2 Succinylacetone (SUAC) is the primary marker for Tyrosinemia Type 1.
- \* For information on DNA Carrier Testing for children over 90 days of age, please call 866.463.6436.