

AUTISM

IS AS UNIQUE AS YOUR CHILD...



AUTISM



metametrix[®]

Clinical Laboratory

quality • innovation • education

THE SOLUTION SHOULD BE AS WELL.

Since **Autism Spectrum Disorders (ASD)** present with an array of symptoms and not one single cause, identifying your unique treatment protocol can be challenging. Functional laboratory testing allows you to take a multifaceted approach and helps you and your clinician formulate a unique treatment strategy for your child.



Metamatrix leads the industry in investments to improve laboratory testing quality and utility, creating **Next Generation TechnologiesSM**. These profiles are making significant contributions to the diagnosis and treatment of children with ASD. These Next Generation Technologies detect underlying factors associated with ASD symptoms and provide a plan for managing ASD by optimizing biochemical functioning.

The **IONSM (Individual • Optimal • Nutrition) Profile** is the most comprehensive profile available, revealing nutritional deficiencies, metabolic dysfunction, and toxicities. Combining profiles of organic acids, amino acids, fatty acids, nutrient and toxic elements, and antioxidant vitamins, the ION Profile represents your best testing value for revealing the metabolic basis of ASD symptoms.

The **OrganixSM Profile** reveals the nutritional and metabolic basis of patient symptoms, including anxiety, mood changes, and immune responses.

The **Fatty Acid Profile** helps strike the right balance of fatty acids that can impact a child's health and development, particularly regarding attention, learning, behavior, and neurological development.

The **Amino Acid Profile** determines essential amino acid imbalances that affect both physical and mental function.

Nutrient/Toxic Element Profiles identify a toxic burden, which can render considerable damage to the brain and nervous system—particularly in children—as well as sufficiency of nutrient elements.

Antioxidant Vitamins measure a total body status of antioxidant nutrients and nutritional deficiencies.

The **AllergixSM IgG4 Food Antibody Profile** identifies immune-mediated food intolerances by detecting offending foods. By eliminating these foods from the diet, behavioral and GI symptoms can be improved.

The **GI EffectsSM Stool Profile** distinguishes issues in the gut, using state-of-the-art DNA technologies for unprecedented accuracy from just ONE specimen collection.

The **Toxic EffectsSM Porphyrins Profile** reveals the impact of heavy metals and other toxins commonly found in ASD children, including mercury, lead, arsenic, and organotoxins.

Characteristic Behaviors/Symptoms	Common Factors in ASD Children	Metamatrix Profiles to Identify Unique Treatment Options
<ul style="list-style-type: none"> • Anxiety • GI symptoms • Increased pain threshold • Withdrawal • Aggression • Impulsiveness • Lack of attention • Issues with non-verbal communication • Lacking in verbal communication skills • Poor immune responses • Problems with social relationships • Obsessive attachments to certain objects • Sensory integration problems • Poor behavior, whining, or tantrums 	<p>Poor Detoxification and Sulfation: Inability to rid the body of toxins and increased oxidative stress</p>	<ul style="list-style-type: none"> • IONSM Profile • Toxic EffectsSM Porphyrins Profile
	<p>Heavy Metal Burden: Accumulation of toxic metals from the environment</p>	<ul style="list-style-type: none"> • ION Profile • Toxic Effects Porphyrins Profile
	<p>Inflamed Gut or Microbial Imbalance: Lead to digestive and absorptive difficulties</p>	<ul style="list-style-type: none"> • Allergix IgG4 Food Antibody Profile • GI Effects Stool Profile • ION Profile
	<p>Allergies: Immune reactions, commonly including gluten (wheat) and casein (milk) and often causes "leaky gut"</p>	<ul style="list-style-type: none"> • Allergix IgG4 Food Antibody Profile • GI Effects Stool Profile • ION Profile
	<p>Nutritional Deficiencies: A lack of key elements and nutrients inhibits immune response and detoxification</p>	<ul style="list-style-type: none"> • ION Profile
	<p>Impairment of Biochemical Pathways: Metabolic blocks affect physiological and cognitive functioning</p>	<ul style="list-style-type: none"> • ION Profile
	<p>Neurological Inflammation: Can be modified by identifying factors, such as toxins and nutrient deficiencies, and improved with customized supplementation</p>	<ul style="list-style-type: none"> • ION Profile
	<p>Yeast Sensitivities: May be related to multiple symptoms</p>	<ul style="list-style-type: none"> • Allergix IgG4 Food Antibody Profile • GI Effects Stool Profile • ION Profile



In a recent study on the usefulness of different treatment types, biomedical non-drug therapies and special diets were shown more effective than using drug therapy treatments.

- Autism Research Institute (2005)

Metamatrix Role with Autism

- Unique laboratory testing profiles to guide treatment
- Sponsor of DAN!, MINDD, and other ASD research organizations
- Teleconferences, interviews, presentations, and other resources on Autism are available online in the Learning Center at www.metamatrix.com
- Case studies with interventions illustrated using various Metamatrix profiles

Metamatrix Clinical Laboratory is committed to furthering the understanding, treatment, and prevention of Autism Spectrum Disorders through laboratory testing, research, and education.



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