

**Sample Test Name**

 Date Of Birth: 04 OCT 1972  
 Sex: M  
 Lab ID: #####

**Test Physician**

 Dr. Edward Chan  
 11 - 1, Wisma Laxton,  
 Jalan Desa, Taman Desa, 58100.

**INTEGRATIVE MEDICINE**

URINE, 6 HOUR

**INTESTINAL PERMEABILITY**

	Result	Range	Units
<b>Urine Volume, 6 hrs</b>	<b>1050</b>		mL
<b>Lactulose Recovery</b>	<b>0.29</b>	0.00 - 0.30	%
<b>Mannitol Recovery</b>	<b>6.79 *L</b>	9.50 - 25.00	%
<b>Lactulose/Mannitol Ratio</b>	<b>0.043 *H</b>	0.000 - 0.035	RATIO
<b>Int. Perm. Comment</b>			


**Mannitol LOW**

Result suggestive of malabsorption. Mannitol is absorbed through transcellular absorption (through the mucosal cells) and serves as a marker of transcellular uptake. Reduced transcellular absorption may indicate malabsorption. Suggest treating with glutamine, probiotics, aloe vera, glucosamine, FOS, glucosamine, MSN, pectin, zinc.

**HIGH LACT/MAN RATIO**

Increased paracellular permeability (between mucosal cells) allows macromolecules, toxins and antigens to cross the intestinal barrier and is associated with the following clinical conditions: Inflamm. Bowel Disease, Irritable bowel, malabsorption, malnutrition, ulcerative colitis, Crohn's Disease, Autism, Coeliac Disease, dysbiosis, Inflamm. joint disease, Rheumatoid arthritis, Inflammatory bowel disease, Ankylosing spondylitis, Reiter's syndrome, Chronic dermatological conditions, Schizophrenia, Allergic disorders, food allergies, trauma, alcoholism, anti-inflammatory drugs / corticosteroids and chemotherapy.

Tests ordered: INTPERM

(\*) Result outside normal reference range

(H) Result is above upper limit of reference rang (L) Result is below lower limit of reference range