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**Lab Dept:** Anatomic Pathology

**Test Name:** DISACCHARIDASE ANALYSIS ON GI BIOPSIES

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***General Information***

**Lab Order Codes:** DSAC

**Synonyms:** N/A

**CPT Codes:** 82657 – Enzyme activity in blood cells, cultured cells, or tissue, not elsewhere specified; nonradioactive substrate, each specimen

**Test Includes:** Dissaccharidase (includes lactase, sucrase, maltase, palatinase and glucoamylase) levels reported in nmol/min/mg Protein.

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***Logistics***

**Test Indications:** N/A

**Lab Testing Section:** Anatomic Pathology - Sendouts

**Referred to:** Mayo Medical Laboratories (MML Test: DSAC)

**Phone Numbers:** MIN Lab: 612-813-6711

STP Lab: 651-220-6560

**Test Availability:** Daily, 24 hours

**Turnaround Time:** 3 - 11 days

**Special Instructions:** N/A

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***Specimen***

**Specimen Type:** Intestinal biopsy

**Container:** Small, tightly capped, plastic tube

**Draw Volume:** 5 mg of intestinal biopsy specimen

**Processed Volume:** Same Draw Volume

**Collection:** Collect fresh tissue. Do not place tissue on gauze or filter paper, nor should any saline, support or embedding material be added.

**Special Processing:** Lab Staff: Sample should be kept frozen and stored at  $-20^{\circ}\text{C}$  to  $-70^{\circ}\text{C}$ . Ship frozen. Forward promptly.

**Patient Preparation:** Physician preference

**Sample Rejection:** Thawed specimen

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***Interpretive***

**Reference Range:**

Lactase:	<14.0 nmol/min/mg Protein
Sucrose:	<19.0 nmol/min/mg Protein
Maltase:	<70.0 nmol/min/mg Protein
Palatinase:	<6.0 nmol/min/mg Protein
Glucoamylase:	<8.0 nmol/min/mg Protein

**Critical Values:** N/A

**Limitations:** N/A

**Methodology:** Spectrophotometry

**References:** [Mayo Medical Laboratories](#) June 2021  
(800) 533-1710

**Update:** 2/15/2011: CPT update. Previously listed as 89130 x4.  
5/20/2021: Testing moved from Joli to internal at Mayo, added Glucoamylase and updated ranges/units.