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**Reporting Title:** Bile Acid Malabsorption Panel**Performing Location:** Rochester**Ordering Guidance:**

This test is for evaluation of bowel dysfunction.

For evaluation of hepatobiliary dysfunction, order BILEA / Bile Acids, Total, Serum.

For evaluation of patients treated with urso or cholate, order BAFS / Bile Acids, Fractionated and Total, Serum.

For evaluation of inborn errors of metabolism, order BAIPD / Bile Acids for Peroxisomal Disorders, Serum.

For confirmatory testing for bile acid malabsorption using a 48-hour fecal collection, order BA48F / Bile Acids, Bowel Dysfunction, 48 Hour, Feces

**Shipping Instructions:**

Feces and serum should be shipped together. Specimens shipped separately may delay testing.

**Specimen Requirements:**

Patient Preparation:

1. For serum collection: Patient must fast for at least 12 hours prior to collection; fasting morning specimen is preferred.
2. Patient should not have recently taken antibiotics, bile acid sequestrants for 24 hours prior to collection, or statins for 5 days prior to collection.
3. No laxatives (particularly mineral oil and castor oil)
4. No synthetic fat substitutes (eg, Olestra) or fat-blocking nutritional supplements
5. Barium interferes with test procedure; if patient has used barium, it is recommended to wait 48 hours before starting the stool collection.

Both feces and serum are required.

Collection for both serum and feces should be completed on the same day, but up to 3 days apart is acceptable.

Specimen Type: Serum

Collection Container/Tube:

Preferred: Serum gel

Acceptable: Red top

Submission Container/Tube: Plastic vial

Specimen Volume: 1 mL

Collection Instructions:

1. Centrifuge and aliquot 1 mL of serum into a plastic vial.
2. Send specimen frozen.

Specimen Type: Feces

Supplies: Stool Container, Small (Random), 4 oz (T288)

Container/Tube: Fecal container

Specimen Volume: 5 g

Collection Instructions:

1. Collect a loose, unpreserved, random fecal specimen.
2. Freeze immediately.

Additional Information: If additional tests are ordered, aliquot and separate sample prior to freezing to allow 1 container

per test.

**Specimen Minimum Volume:**

Feces: See Specimen Collection

Homogenized feces: 1 mL

Serum: 0.5 mL

**Forms:**

If not ordering electronically, complete, print, and send a Gastroenterology and Hepatology Test Request (T728) with the specimen.

Specimen Type	Temperature	Time	Special Container
Fecal	Frozen	30 days	
Serum	Frozen (preferred)	90 days	
	Refrigerated	72 hours	
	Ambient	24 hours	

**Result Codes:**

Result ID	Reporting Name	Type	Unit	LOINC®
65504	7AC4, Bile Acid Synthesis, S <b>Also used by tests: 7AC4</b>	Numeric	ng/mL	94866-1
620308	Bile Acids, % CDCA + CA, F	Alphanumeric	% total	103710-0
619971	Bile Acid Malabsorption Panel Interpretation	Alphanumeric		59462-2

LOINC and CPT codes are provided by the performing laboratory.

**Supplemental Report:**

No

**Components:**

Test ID	Reporting Name	CPT Units	CPT Code	Always Performed	Orderable Separately
7AC4	7AC4, Bile Acid Synthesis, S			Yes	Yes
BAMRF	Bile Acid, Malabsorption, F			Yes	No

**CPT Code Information:**

82542 x2

**Reference Values:****BILE ACID MALABSORPTION, FECAL:**

&gt; or =18 years:

Sum of cholic acid and chenodeoxycholic acid: &lt; or =10.0%

**7AC4, BILE ACID SYNTHESIS, SERUM:**

2.5-63.2 ng/mL

Reference values have not been established for patients who are younger than 18 years of age.