

**Reporting Title:** Pernicious Anemia Cascade

**Performing Location** Rochester

**Ordering Guidance:**

Ask patients if they have received a vitamin B12 injection or radiolabeled vitamin B12 injection within the last 2 weeks. Patient results will not reflect deficiency or malabsorption after recent B12 injection. If patient has received such an injection within the past 2 weeks, **this test should not be ordered.**

**Specimen Requirements:**

**Patient Preparation:**

1. This test should not be performed on patients who have received a vitamin B12 injection or radiolabeled vitamin B12 injection within the previous 2 weeks.
2. Patient should be fasting for 8 hours.
3. If medically feasible, proton pump inhibitor (omeprazole, lansoprazole, dexlansoprazole, esomeprazole, pantoprazole, and rabeprazole) therapy should be discontinued 1 week before measurement of serum gastrin levels.
4. Drugs that interfere with gastrointestinal motility (eg, opioids) should be discontinued for at least 2 weeks before serum gastrin testing.

**Container/Tube:**

**Preferred:** Red top

**Acceptable:** Serum gel

**Specimen Volume:** 4 mL

**Collection Instructions:**

1. Divide specimen into 3 plastic vials, 1 containing 1 mL (label as PAGAS), 1 containing 1.5 mL (label as PAMMA), and 1 containing 1.5 mL (label as B12PA).
2. Band specimens together.

**Forms:**

If not ordering electronically, complete, print, and send a [Benign Hematology Test Request Form](#) (T755) with the specimen.

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

**Supplemental Report:**

No

**CPT Code Information:**

- 82607-Vitamin B12 assay
- 82941-Gastrin (if appropriate)
- 83921-MMA (if appropriate)
- 86340-IFBA (if appropriate)

**Reflex Tests:**

Test Id	Reporting Name	CPT Units	CPT Code	Available Separately	Always Performed

IFBPA	Intrinsic Factor Blocking Ab, S		86340	No	Yes
MMAPA	Methylmalonic Acid, QN, S		83921	No	Yes
GASTR	Gastrin, S		82941	No	Yes

**Result Codes for Reflex Tests:**

Test ID	Result ID	Reporting Name	Type	Unit	LOINC
MMAPA	33049	Methylmalonic Acid, QN, S	Numeric	nmol/mL	13964-2
IFBPA	IFBLB	Intrinsic Factor Blocking Ab, S	Alphanumeric		31444-3
GASTR	GASTR	Gastrin, S	Numeric	pg/mL	2333-3

**Reference Values:**

180-914 ng/L