Vitamin B₁₂ Deficiency Evaluation

ACASM / Pernicious Anemia Cascade
Testing begins with Vitamin B₁₂ Assay, Serum

- >400 ng/L
- <150 ng/L

>150-400 ng/L

≤0.4 nmol/mL
Methylmalonic acid
>0.4 nmol/mL

Intrinsic factor blocking antibody

POSITIVE
Result consistent with pernicious anemia.

NEGATIVE
Result does not suggest pernicious anemia as the cause of vitamin B₁₂ deficiency.

Gastrin

- >200 pg/mL
- ≤200 pg/mL

This value implies that there is no deficiency of vitamin B₁₂ at the cellular level.

No further testing is performed. Result does not suggest vitamin B₁₂ deficiency.