

Reporting Title: Protein S Ag, Total, P
Performing Location: Mayo Clinic Laboratories - Rochester Main Campus

Specimen Requirements:

Only orderable as part of a profile. For more information see PSTF / Protein S Antigen, Plasma.

- Specimen Type:** Platelet-poor plasma
- Patient Preparation:** Patient must not be receiving heparin or Coumadin. If the patient is being treated with Coumadin, this should be noted. Coumadin will lower protein S.
- Collection Container/Tube:** Light-blue top (3.2% sodium citrate)
- Submission Container/Tube:** Plastic vials
- Specimen Volume:** 1 mL in 2 plastic vials each containing 0.5 mL
- Collection Instructions:**

- For complete instructions, see [Coagulation Guidelines for Specimen Handling and Processing](#).
- Centrifuge, transfer all plasma into a plastic vial, and centrifuge plasma again.
- Aliquot plasma into separate plastic vial leaving 0.25 mL in the bottom of centrifuged vial.
- Freeze plasma immediately (no longer than 4 hours after collection) at -20 degrees C or ideally, at -40 degrees C or below.
- Send specimens in the same shipping container.

Additional Information:

- Double-centrifuged specimen is critical for accurate results as platelet contamination may cause spurious results.
- Each coagulation assay requested should have its own vial.

Specimen Type	Temperature	Time	Special Container
Plasma Na Cit	Frozen	14 days	

Result Codes:

Result ID	Reporting Name	Type	Unit	LOINC®
PST	Protein S Ag, Total, P	Numeric	%	27823-4

LOINC® and CPT codes are provided by the performing laboratory.

Supplemental Report:

No

CPT Code Information:

85305

Reference Values:

Only orderable as part of a profile. For more information see PSTF / Protein S Antigen, Plasma.

Males: 80-160%

Females:

<50 years: 70-160%

> or =50 years: 80-160%

Normal, full-term newborn infants or healthy premature infants may have decreased levels of total protein S (15%-50%), but because of low levels of C4bBP, free protein S may be normal or near the normal adult level (> or =50%). Total protein S reaches adult levels by 90-180 days postnatal.*

*See Pediatric Hemostasis References section in [Coagulation Guidelines for Specimen Handling and Processing](#)