

**Reporting Title:** PSA Total and Free, S  
**Performing Location:** Mayo Clinic Jacksonville Clinical Lab

**Ordering Guidance:**  
[This test may be ordered for patients undergoing evaluation of suspicion of prostate cancer, or for](#) assessing the risk of prostate cancer in patients with borderline or moderately increased total prostate-specific antigen (4.0-10.0 ng/mL).

**Necessary Information:**  
Include patient's age.

**Specimen Requirements:**  
**Supplies:** Sarstedt Aliquot Tube 5 mL (T914)  
**Collection Container/Tube:**  
**Preferred:** Serum gel  
**Acceptable:** Red top  
**Submission Container/Tube:** Plastic vial  
**Specimen Volume:** 1 mL  
**Collection Instructions:** Centrifuge and aliquot serum into a plastic vial within 3 hours of collection.

**Forms:**  
If not ordering electronically, complete, print, and send 1 of the following forms with the specimen:  
[-General Request](#) (T239)  
[-Oncology Test Request](#) (T729)

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

**Result Codes:**

Result ID	Reporting Name	Type	Unit	LOINC®
TPSA	Total PSA	Numeric	ng/mL	83112-3
FPSA	Free PSA	Numeric	ng/mL	83113-1
PSA_R	Free PSA/PSA Ratio	Numeric	ratio	12841-3

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

**Supplemental Report:**  
No

**CPT Code Information:**  
84153  
84154

Reference Values:

TOTAL PROSTATE-SPECIFIC ANTIGEN (PSA)

Males:

Age (years)	PSA upper limit (ng/mL)
<40	< or =2.0
40-49	< or =2.5
50-59	< or =3.5
60-69	< or =4.5
70-79	< or =6.5
> or =80	< or =7.2

Females: Not applicable

FREE PSA:TOTAL PSA

Males:

When Total PSA concentration is in the range of 4.0-10.0 ng/mL:

Probability of cancer			
Free PSA/total PSA ratio	50-59 years	60-69 years	> or =70 years
< or =0.10	49%	58%	65%
0.11-0.18	27%	34%	41%
0.19-0.25	18%	24%	30%
>0.25	9%	12%	16%

Females: Not applicable