MAYO CLINIC LABORATORIES

Test Definition: PHI11

Prostate Health Index Reflex, Serum

Reporting Title: Prostate Health Index Reflex, S
Performing Location: Rochester

Specimen Requirements:

Patient Preparation:
1. Specimens for testing should be collected prior to prostate manipulations such as digital rectal examination (DRE), prostatic massage, transrectal ultrasound (TRUS), and prostatic biopsy.
2. A 6-week waiting period between needle biopsy and specimen collection is recommended.
3. Specimens should not be collected from patients receiving therapy with high biotin (vitamin B7) doses (ie, >5 mg/day) until at least 8 hours following the last biotin administration.
Collection Container/Tube: Red top (serum gel/SST are not acceptable)
Submission Container/Tube: Plastic vial
Specimen Volume: 1 mL
Collection Instructions: Centrifuge, aliquot serum into plastic vial, and refrigerate serum within 3 hours of collection. Freeze sample within 24 hours of collection and send frozen.

Specimen Minimum Volume:

0.75 mL

Forms:

If not ordering electronically, complete, print, and send an Oncology Test Request (T729) with the specimen.

Specimen Type	Temperature	Time	Special Container
Serum Red	Frozen	150 days	

Result Codes:

Result ID	Reporting Name	Type	Unit	LOINC®
PHI12	Prostate Specific Antigen, S	Numeric	ng/mL	83112-3

LOINC and CPT codes are provided by the performing laboratory.

Supplemental Report:

No

CPT Code Information:

84153 - Total PSA
84154 - Free PSA (if appropriate)
86316 - [-2]ProPSA (if appropriate)

Reflex Tests:

Test ID	Reporting Name	CPT Units	CPT Code	Always Performed	Orderable Separately
PHI13	Prostate Health Index (phi) Reflex			No	No

Result Codes for Reflex Tests:

Test ID	Result ID	Reporting Name	Type	Unit	LOINC®
PHI13	PHI14	Free PSA, S	Numeric	ng/mL	83113-1
PHI13	PHI15	[-2]ProPSA, S	Numeric	pg/mL	97149-9
PHI13	PHI16	% Free PSA	Numeric	%	12841-3
PHI13	PHI17	Prostate Health Index	Numeric		97150-7

Reference Values:

Females: Not applicable

PROSTATE-SPECIFIC ANTIGEN (PSA) MALES:

Age	Reference range
<40 years	< or =2.0 ng/mL
40-49 years	< or =2.5 ng/mL
50-59 years	< or =3.5 ng/mL
60-69 years	< or =4.5 ng/mL
70-79 years	< or =6.5 ng/mL
> or =80 years	< or =7.2 ng/mL

PERCENT FREE PSA MALES:
When total PSA is in the range of 4.0-10.0 ng/mL

% Free PSA	Probability of cancer
< or =10%	56%
11-15%	28%
16-20%	20%
21-25%	16%

>25%	8%

PROSTATE HEALTH INDEX (phi) MALES:
When PSA is in the range of 4.0-10.0 ng/mL

phi range	Probability of cancer	95% Confidence interval
0-26.9	9.8%	5.2-15.4%
27.0-35.9	16.8%	11.3-22.2%
36.0-54.9	33.3%	26.8-39.9%
> or =55.0	50.1%	39.8-61.0%