

Free Protein S

High precision
and specificity

Assay adaptable to
coagulation systems

Traceable to
WHO standard

Free Protein S (FPS) is a latex immunoassay for quantitative determination of free protein S in citrated human plasma. Inherited and acquired protein S deficiency is an important risk factor for deep vein thrombosis (DVT) and pulmonary embolism (PE). Measurements of free protein S can detect more subtypes of protein S deficiency than measurements of total protein S and has therefore become an important tool in clinical thrombosis investigations. FPS consists of two different protein S specific

antibodies coupled to sub-micron sized polystyrene particles. The system is not sensitive to protein S bound to C4BP, and therefore only reacts with free protein S. FPS includes two different products designed to match different measuring instruments. For instruments operating in the blue wavelength range (400–600 nm) Nordic Biomarker offers Blue Free Protein S. For instruments operating in the red wavelength range (600–800 nm) Nordic Biomarker offers Red Free Protein S.



- ▶ High precision and specificity for free protein S
- ▶ Flexible and works on most systems with wavelengths at 400–800 nm
- ▶ Good correlation to existing free protein S assays
- ▶ Calibrated against WHO 2nd International Standard, NIBSC 03/228
- ▶ Blocker included to minimise heterophilic interferences

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For downloads, please visit nordicbiomarker.com

DETAILS

Product form	Liquid components, ready to use
Wavelength	Blue Free Protein S: 400–600 nm Red Free Protein S: 600–800 nm

ANALYTICAL PERFORMANCE CHARACTERISTICS

Sysmex CS-2100i has been used for these measurements.

	Blue Free Protein S			Red Free Protein S		
Measuring range	7–200% FPS			5–150% FPS		
Precision	Sample	Repeatability		Sample	Repeatability	
		Mean FPS	CV%		Mean FPS	CV%
	Level 1	28%	2.9	Level 1	25%	2.0
	Level 2	86%	2.5	Level 2	45%	1.8
			Level 3	95%	3.0	
No interference with	<ul style="list-style-type: none"> ▶ Bilirubin <18 mg/dL ▶ Haemoglobin <500 mg/dL ▶ Triglycerides <230 mg/dL ▶ Unfractionated heparin <330 U/dL ▶ Low molecular weight heparin <330 U/dL 			<ul style="list-style-type: none"> ▶ Bilirubin <40 mg/dL ▶ Haemoglobin <1000 mg/dL ▶ Triglycerides <1500 mg/dL ▶ Unfractionated heparin <330 U/dL ▶ Low molecular weight heparin <330 U/dL 		

STABILITY AND STORAGE

Storage	2–8 °C
Shelf-life	18 months at 2–8 °C
Open-vial stability	Blue Free Protein S: 8 weeks at 2–8 °C Red Free Protein S: 4 weeks at 2–8 °C

ORDERING INFORMATION

PRODUCT NUMBER	PRODUCT NAME	CONTENT
P4011	Blue Free Protein S 2.5 mL	3x2.5 mL Latex reagent 3x4 mL Reaction buffer
P4028	Blue Free Protein S Bulk*	Latex reagent Reaction buffer
P4010	Red Free Protein S 2.5 mL	3x2.5 mL Latex reagent 3x4 mL Reaction buffer
P4016	Red Free Protein S Bulk*	Latex reagent Reaction buffer

* Different filling volumes available upon request

ASSOCIATED PRODUCTS

PRODUCT NUMBER	PRODUCT NAME	CONTENT
C3025	Free Protein S Calibrator	1 mL
C3112	Specialty Normal Control	1 mL
C3113	Specialty Abnormal Control	1 mL
C3136	PBS Diluent 5 mL	5 mL
C3137	Laboratory Water 5 mL	5 mL