

# MRX 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



MRX 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. MRX 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.

MRX 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 MRX Blue Free Protein S. For instruments operating in the red wavelength range (600–800 nm) Nordic Biomarker offers MRX Red Free Protein S.

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For downloads, please visit [nordicbiomarker.com](http://nordicbiomarker.com)

## DETAILS

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

## ANALYTICAL PERFORMANCE CHARACTERISTICS

Sysmex CS-2100i has been used for these measurements

	MRX Blue Free Protein S			MRX Red Free Protein S		
Measuring range	7-200 % FPS			5-150 % FPS		
Precision	<b>Sample</b>	<b>Repeatability</b>		<b>Sample</b>	<b>Repeatability</b>	
		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	▶ Bilirubin <18 mg/dL	▶ Haemoglobin <500 mg/dL		▶ Bilirubin <40 mg/dL	▶ Haemoglobin <1000 mg/dL	
	▶ Triglycerides <230 mg/dL	▶ Unfractionated heparin <330 U/dL		▶ Triglycerides <1500 mg/dL	▶ Unfractionated heparin <330 U/dL	
	▶ Low molecular weight 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
K5010	MRX Blue Free Protein S	3x2.5 mL Latex reagent 3x4 mL Reaction buffer
K5009	MRX Red Free Protein S	3x2.5 mL Latex reagent 3x4 mL Reaction buffer

## ASSOCIATED PRODUCTS

PRODUCT NUMBER	PRODUCT NAME	CONTENT
K5044	MRX Free Protein S Calibrator	4x1 mL
K5021	MRX Specialty Normal Control	10x1 mL
K5022	MRX Specialty Abnormal Control	10x1 mL
K5047	MRX PBS Diluent	10x5 mL
K5036	MRX Laboratory Water	10x5 mL