

# Protein C

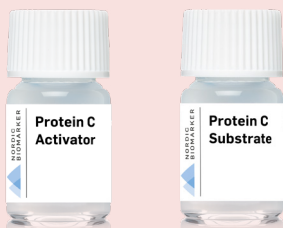
Liquid reagent,  
ready to use

Calibrated against  
WHO standard

Measures  
Protein C activity

Nordic Biomarker's Protein C is a chromogenic test for quantitative determination of protein C activity in citrated human plasma, which can be used as an aid in diagnosis of protein C deficiency. Protein C deficiencies, hereditary and/or acquired, increases the risk for developing thromboembolic disease. There are two different types of protein C deficiency; type I refers to reduced biosynthesis whereas type II is characterised by a decrease in functional activity. The Protein C assay measures protein C activity,

thus covering both types of protein C deficiency. The Protein C assay consists of two components: Protein C Activator and Protein C Substrate. When a plasma sample is mixed with the Protein C Activator, all functional protein C is activated. The level of activated protein C in the plasma sample is quantified by adding a substrate that is specifically hydrolysed by activated protein C. The pNA released when the substrate is cleaved is proportional to the protein C level in the sample.



- ▶ Liquid components, ready to use
- ▶ High precision and specificity for protein C activity
- ▶ Chromogenic assay, works on most systems with wavelength 405 nm
- ▶ Good correlation to existing protein C assays
- ▶ Calibrated against WHO 2<sup>nd</sup> international standard, NIBSC 02/342

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## DETAILS

Product form	Liquid components, ready to use
Wavelength	405 nm

## ANALYTICAL PERFORMANCE CHARACTERISTICS

*Sysmex CS-2100i has been used for heparin measurements and parts of the reproducibility testing. Sysmex CS-2500 has been used for all other measurements.*

Measuring range	8–186% protein C					
Precision	<b>Sample</b>	<b>Repeatability</b>		<b>Reproducibility</b>		
		% PC	CV %	% PC	CV %	
		Level 1	18	2.8	19	3.5
		Level 2	38	1.5	40	3.3
	Level 3	103	1.4	106	2.5	
No interference with	<ul style="list-style-type: none"> <li>▶ Bilirubin (conjugated) ≤25 mg/dL</li> <li>▶ Bilirubin (unconjugated) ≤25 mg/dL</li> <li>▶ Haemoglobin ≤240 mg/dL</li> <li>▶ Unfractionated heparin ≤200 U/dL</li> <li>▶ Triglycerides ≤375 mg/dL</li> </ul>					

## STABILITY AND STORAGE

Storage	2–8 °C
Shelf-life	18 months at 2–8 °C
Open-vial stability	8 weeks at 2–8 °C

## ORDERING INFORMATION

PRODUCT NUMBER	PRODUCT NAME	CONTENT
P4032	Protein C 2.5 mL	2.5 mL Activator 2.5 mL Substrate
P4031	Protein C Bulk*	Activator Substrate

\* Different filling volumes available upon request

PRODUCT NUMBER	PRODUCT NAME	CONTENT
C3083	Protein C 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