

Immune monitoring in the clinical routine

Neopterin ELISA



Ideal applications

- Early indication of complication in allograft recipients
- Screening of blood donor samples
- Prognostic marker for cardiovascular diseases
- Follow-up of traumatized patients in intensive care units
- Differential diagnosis of acute viral and bacterial infections
- Indicator of disease activity and therapy control in autoimmune diseases

Special features

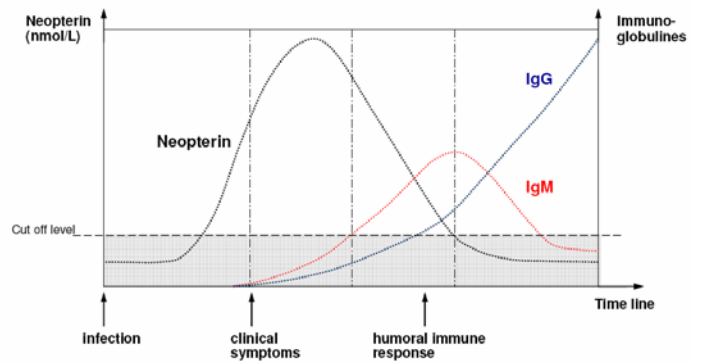
- Complete kit
- Based on a competitive ELISA
- Pre-coated ELISA plates
- Assay completed within 2 hours
- Excellent reproducibility, linearity and recovery
- Only 10 µl of sample is needed
- Analyses neopterin levels in serum, plasma or urine samples



Background information

Neopterin is synthesized by macrophages upon stimulation with the cytokine interferon-gamma and is indicative of a pro-inflammatory immune status. Measurement of neopterin concentrations in body fluids like plasma, serum and urine provides information about cellular immune activation in humans under the control of T helper cells type 1. High neopterin production is associated with increased production of reactive oxygen species, neopterin concentrations also allow to estimate the extent of oxidative stress elicited by the immune system.

Neopterin concentrations usually correlate with the extent and activity of the disease, and are also useful to monitor during therapy in these patients. Elevated neopterin concentrations are among the best predictors of adverse outcome in patients with HIV infection, in cardiovascular disease and in various types of cancer.



Principle of the Neopterin assay

Solid phase enzyme-linked immunosorbent assay (ELISA) based on the basic principle of a competitive ELISA. An unknown amount of antigen in the sample and a fixed amount of enzyme labeled antigen compete for the antibody-binding sites. Both antigen-antibody complexes bind to the wells. The intensity of the color developed after the substrate incubation is inversely proportional to the amount of antigen in the sample. Results of samples can be determined directly using the standard curve.

Product details			
Item	Description	Test size	Product code
Neopterin ELISA [IVD] CE	Neopterin ELISA assay quantification of neopterin in serum, plasma and urine	96 tests	IQP-386

Related products			
Item	Description	Test size	Product code
sTREM-1 ELISA [RUO]	sTREM-1 ELISA assay quantification of soluble TREM-1 in serum and plasma	96 tests	IQP-385
Macro163 [RUO]	sCD163 ELISA assay for measuring Macrophage and monocytes activation	96 tests	IQP-383
Leuko64™ [IVD] CE	Complete kit for the detection of inflammation and tissue injury by leukocyte CD64 detection	Flow cytometer version	75 tests LK-64-75
		Hematology analyzer version	250 tests LK-64-250
			100 tests LK64-H-100

[RUO] For research Use Only

[IVD] CE For In Vitro Diagnostic use.

This product is registered as IVD in the countries belonging to the European Union