Neopterin

General:

Main producers of neopterin are macrophages which synthesize neopterin after stimulation by cytokines, which are released by activated T-cells. Other cytokines also have a direct effect on the production of neopterin *in vivo*. Tumor necrosis factor α (TNFa) can trigger the effect of interferon. Neopterin is a sensitive marker for the estimation of the activity of the cellular immune system.

Diagnostic value of neopterin testing in disorders which are accompanied by an increased neopterin level

Organ transplantation	course control to recognize immunological complications like rejection reactions and infections
Infections with viruses, parasites or bacteria	correlation to disorder activity, neopterin increase before serological conversion, therapy monitoring
Autoimmune disorders	correlation to activity and extension of the disorder, therapy monitoring
Malignant disorders	Prognostic marker
Blood donor screening	detection of acute infections and other inflammatory disorders

Indication: Therapy, proliferation monitoring, transplant supervision.
Material: 2 ml serum frozen
Pre-analytics: light protected and frozen
TAT: 7-10 days*
Method: HPLC
Units: nmol/l
Ref.- range: see report
Note: *see also* **Tumor markers**

For complete list of laboratory test offered at Freiburg Medical Laboratory, please visit http://www.fml-dubai.com/parameter-listings/

Updated 24/01/2024

DAkkS Deutsche Akkreditierungsstelle D-ML-13455-01-00

Freiburg Medical Laboratory ME LLC is accredited according to DIN EN ISO 15189.

^ non-accredited parameter
*performed in a collaborating laboratory (Germany)