

# Cyclosporine A

## General:

Cyclosporine is a cyclic, hydrophobic peptide, which consists of 11 amino acids. Application areas are immunosuppressive therapy after organ transplantations and therapy in autoimmune diseases. Among the most important side effects of an immunosuppressive therapy with cyclosporine are arterial hypertonia and kidney damage, hepatotoxicity, infections, gingival hyperplasia, tremor, hirsutism, hyperkalemia, hypomagnesemia as well as hyperuricemia. The pathophysiological mechanisms concerning the side effects are based on the reciprocal effect of cyclosporine with the vasoconstrictory endogenous peptide endothelin.

Indication: Therapy monitoring

Material: 3 ml EDTA blood

TAT: 7-10 days\*

Pre-analytics: blood should be collected directly before the next medication  
(basal level)

Method: LCMS

Units: µg/l

Ref.- range: 100 - 300

Note: Falsely elevated values are found in samples collected directly after cyclosporine intake

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