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Citrulline

General:

Citrulline is an amino acid generated in plants and animals and is found in high concentrations for example in the water melon citrullus vulgaris. It is considered an intermediate product of the urea cycle. Citrulline has pathogenic significance in the autosomal recessively inherited citrullinemia due to a reduced activity of argininosuccinic acid synthetase (subsequent argininosuccinic synthetase is encoded by genes distributed on at least 8 chromosomes). This leads to accumulation of citrulline (citrullinemia), alanine, glutamine and ammonia in plasma, CSF and urine. The hyperammonemia leads to microcephaly, vomiting, comatose conditions, oligophrenia, ataxia.

The following tests are available:

Citrulline in serum

Indication: suspicion of citrullinemia

Note: see amino acids

Citrulline in urine

Indication: suspicion of citrullinemia

Material: 10 ml urine

TAT: 7-10 days*

Method: HPLC

Units: mmol/mol crea

Ref.- range: see report

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

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