| Homocysteine | |
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| Description | Homocysteine is generated by leukocytes in vitro. |
| Indication | Hyperhomocysteinaemia has been considered a cardiovascular risk factor and can be raised in vitamin B12 and or folate deficiency. Monitoring treatment response in Homocystinuria. |
| Additional Info | Homocysteine can increase with age, smoking and by concurrent use of drugs such as phenytoin, methotrexate and carbamazepine. |
| Concurrent Tests | N/A |
| Dietary Requirements | N/A |
| Interpretation | Normal levels are <15 µmol/L Levels > 100 µmol/L indicate severe homocysteinaemia and homocystinuria Vitamin deficiencies of B12 and Folate are associated with |
| | high homocysteine. High levels are associated with an increased risk of heart attack or stroke. |
| Collection Conditions | A fasting sample is preferred. Blood should be collected into a FEDTA tube (Sarstedt yellow top) and transported immediately to the lab. The sample must be centrifuged and plasma removed from cells within 1 hour to avoid falsely elevated levels. |
| Frequency of testing | As required |

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