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| **Sirolimus** |
| **Synonyms** |  | Rapamycin, Rapamune, Sir |
| **Clinical Indication** |  | Sirolimus is an immunosuppressive drug licensed for use in renal transplantation.Sirolimus exerts its effect by inhibiting the activation of T and B cells. It is important to monitor the blood concentration of sirolimus as at toxic concentrations patients are susceptible to a number of side-effects. At sub-therapeutic dosage, patients may experience transplant rejection.  |
| **Part of Profile / See Also** |  |  |
| **Request Form** |  | Combined Pathology manual Blood form or ICE request |
| **Availability / Frequency of Analysis** |  | Referred test: Analysed by the IMS Laboratory, King’s College Hospital Synnovis 8805. |
| **Turnaround Time** |  | 48 hours (up to 4 days if sample is received on a Friday or over the weekend) |
| **Patient Preparation** |  | Trough sample required: 2 - 4 hours before next dose. |
| **Sample Requirements** |  |  |
| **Specimen Type** |  | EDTA Whole Blood |
| **Volume** |  | 2mls minimum |
| **Container** |  |  Pink/purple top (EDTA) tube Paediatric EDTA (Red top – Sarstedt)  Paediatric EDTA (Pink top – BD Microtainer) |
| **Reference Range & Units** |  | ug/L. Therapeutic range varies depending on reasons for use, type of transplant and concomitant disease and medication. See <www.sirolimus.org.uk> |
| **Interferences** |  |  |
| **Interpretation & Clinical** **Decision Value (if applicable)** |  | No established therapeutic range. Please contact the reference laboratory if you wish to discuss a result (07738 897225 / 02071 889652) |
| **References** |  | <http://www.viapath.co.uk/our-tests/sirolimus>  |
| **Test code** |  | SIRO |
| **Lab Handling** |  | Store the whole blood (EDTA) in the referrals rack at 4°C. Sent daily by courier to King’s College, London. |