

Mycophenolate

Synonyms

MPA, MMF, mycophenolate mofetil, mycophenolic acid, CellCept

Clinical Indication

Mycophenolate is an immunosuppressive agent which exerts its effect by inhibiting the growth of the B and T cells. It is used in the prophylaxis of acute rejection in organ transplant patients (often alongside cyclosporin and corticosteroids).

Used for monitoring blood Mycophenolate concentration. At toxic concentrations patients are susceptible to side effects including leucopaenia and anaemia. At sub-therapeutic dosage, patients may experience transplant rejection.

Mycophenolate is increasingly used as a steroid sparing treatment in other autoimmune mediated diseases like psoriasis.

Part of Profile / See Also

Request Form

Combined Pathology manual Blood form or ICE request

Availability / Frequency of Analysis

Referred test: Analysed at St Thomas Hospital Synnovis 8805 (Immunosuppressant Laboratory), if specific criteria met.

Turnaround Time

4 days (longer for samples taken on a Friday)

Patient Preparation

Samples should be collected before next dose (trough)

Sample Requirements

Specimen Type

EDTA plasma

Volume

1 ml

Container



Pink/purple top (EDTA) tube



Paediatric EDTA (Red top – Sarstedt)



Paediatric EDTA (Pink top – BD Microtainer)

Reference Range & Units

Therapeutic range varies depending on reasons for use, type of transplant and concomitant disease and medications.

[Suggested therapeutic range: 1 – 3.5 mg/L](#)

Interferences

Interpretation & Clinical

Decision Value (if applicable)

The reference laboratory can be contacted on [020 3299 3147](tel:02032993147) (Immunosuppressant Service – St Thomas' Hospital) if further discussion is required.

References

<https://bnf.nice.org.uk/drug/mycophenolate-mofetil.html>

<https://www.synnovis.co.uk/our-tests/mycophenolic-acid>

Test code

MPA

Lab Handling

Centrifuge and aliquot 500ul (absolute minimum 100 ul) of EDTA plasma, ideally within 24hrs. Store plasma in the referrals rack at 4C (clearly label with the sample type on the aliquot). Sent daily by courier to Synnovis IDM Laboratory, St Thomas, London. Store sample frozen (-20C) if not sent within 2 days.



8805
Accredited to
ISO 15189:2012