

Urine Calcium, Phosphate and Magnesium

Synonyms

Clinical Indication

Urine calcium, phosphate and/or magnesium are indicated for the investigation of abnormalities in serum levels calcium, magnesium or phosphate, as well as investigation or monitoring of patients with renal stones. Certain renal tubular defects may also warrant these investigations e.g. Fanconi Syndrome, Gitelman's and Bartter's syndromes.

Part of Profile / See Also

Request Form

Standard pathology manual blood form or ICE request

Availability / Frequency of Analysis

On request

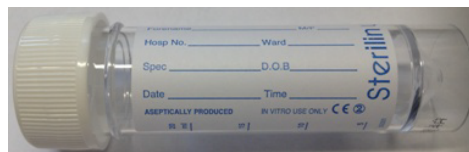
Turnaround Time

1 day

Patient Preparation

Sample Requirements

Plain spot urine (White capped universal) or plain 24 hour urine



Reference Range & Units

Calcium: 2.5 – 7.5 mmol/24h

Phosphate: 15 – 50 mmol/24h

Magnesium: 2.4 – 6.5 mmol/24h

Interferences

Patients with more alkaline urine should have 24 hour samples collected into acid containers as a pH >6.4 can cause precipitation of complexes out of solution, leading to falsely low values. Urine pH will be checked upon sample receipt in the lab and a comment added if appropriate.

Interpretation & Clinical

Decision Value (if applicable)

References

Test code

UCA / 24CA, UPHO / 24PH, UMG / 24MG

Lab Handling

Analyse urine within 24 hour. pH recorded in winpath on receipt.