


 Accredited to
 ISO 15189:2022

Paracetamol

Synonyms

Acetaminophen, N-Acetyl para-amino phenol

Clinical Indication

Suspected Overdose. Paracetamol is the single most common substance involved in childhood and adult poisonings in the UK.

Early diagnosis is important as initiation of therapy within 16 hours of ingestion reduces in the likelihood of hepatic injury and decreases the rate of mortality.

Samples must be taken 4 hours or more post ingestion for reliable interpretation.

Overdose - An information sheet is available from National Poisons Service ([Toxbase](#)).

Part of Profile / See Also

Request Form

Combined Pathology manual Blood form or ICE request

Availability / Frequency of Analysis

On request

Turnaround Time

2 hours

Patient Preparation

None required

Sample Requirements

Sample must be taken 4 hours or more after ingestion. Levels taken before 4 hours cannot be reliably interpreted because of the possibility of continuing absorption and distribution of the drug.

Specimen Type

Serum and plasma

Volume

2 ml

Acceptable Containers



Yellow top (SST) tube



Green top (lithium-heparin) tube



paediatric orange top (lithium-heparin)



paediatric green top (lithium-heparin)

Plain serum samples may also be used.

Reference Range & Units

Undetectable

Interferences

Note that the toxic paracetamol metabolite NAPQI interferes in the creatinine assay. In patients with serum paracetamol concentrations >80 mg/L, falsely low creatinine results may be observed.

Interpretation & Clinical
Decision Value (if applicable)

Results >100 mg/L are telephoned to the requesting source

References

Beckman kit insert

Pathology Harmony

Test code

PARA

Lab Handling

Analysed from the primary tube and stored at 4°C.
 Serum and plasma stable for 14 days at 4°C.