



## G6PD Screen

### Synonyms

G6PD, G6PD deficiency screen

### Clinical Indication

Some cases of neonatal jaundice and anaemia. Occasional cases of anaemia. Haemolysis when patient exposed to oxidant compounds.

To be discussed with Consultant Haematologist

### Part of Profile / See Also

### Request Form

Combined Pathology Blood form or ICE request

### Availability / Frequency of Analysis

On request after discussion with a Consultant Haematologist.

Where the screen indicates a G6PD deficiency the sample is referred to Kings College Hospital Health for quantitative assay.

### Turnaround Time

72 hours unless clinical need requires urgent testing

### Patient Preparation

None required

### Sample Requirements

#### Specimen Type

Whole blood (EDTA)

#### Volume

3ml to 4ml. Paediatric samples accepted by arrangement with laboratory.

#### Container



Purple top (EDTA) tube



Paediatric Lavender top (EDTA) tube

### Reference Range & Units

Where a screen indicates G6PD deficiency the sample is referred for quantitative assay (if sufficient sample).

Samples on children <6 months age, or individuals with a raised reticulocyte, platelet or white cell count, may be falsely normal. A Repeat sample may be requested after a haemolytic episode to confirm G6PD status.

### Interferences

White blood cells, platelets and reticulocytes may be rich in G6PDH and may, if present at increased levels give a false normal result.

### Interpretation & Clinical

#### Decision Value (if applicable)

This assay is semi quantitative and where reduced or deficient levels are seen then a quantitative assay is required to confirm.

The G6PD result must be interpreted along with Full Blood Count and Reticulocyte results.

### References

Trinity Biotech Glucose-6-Phosphate Dehydrogenase (G-6-PDH) Deficiency kit insert.

### Test code

G6PD

### Lab Handling

Refrigerate sample on arrival