

Day 5 blood spot samples: IRT assay

Assay in singlicate

IRT < cut-off 0

IRT > cut-off 0

Re-assay in duplicate

IRT < cut-off 1

IRT > cut-off 1

DNA analysis - 4 mutations

CF Not Suspected

Note: CF infants with meconium ileus may show a normal IRT. They, and babies at high risk due to family history or who have shown echogenic bowel, should be investigated according to clinical circumstances as well as being screened.

Cut-off 0 = 60 ng/ml
Cut-off 1 = 99.5th centile
Cut-off 2 is 10 ng/ml below cut-off 1
99.9th centile = 120 ng/ml

Two CF mutations

One CF mutation

No mutation detected

DNA analysis - 29 or 31 panel

One CF mutation

CF SUSPECTED

IRT on 2nd blood spot sample

IRT > 99.9th centile

Yes

IRT on 2nd blood spot

IRT > cut-off 2

IRT < cut-off 2

CF SUSPECTED

Probable carrier

CF Not Suspected

IRT > cut-off 2

IRT < cut-off 2

CF SUSPECTED

CF Not Suspected

No