

SEXING

(FOR MEDICAL
IMPLICATIONS)

Orderable – E-order/Requisition

Turnaround Time: 3 months

Alternate Name(s):

Sex Determination
Y-marker

Specimen:

Whole blood-1 x 4 mL Lavender EDTA top Vacutainer tube

Collection Information:

Blood samples must be maintained at room temperature.

Reference Ranges:

See report

Interpretive Comments:

This test will be available for medical indications only, usually to aid in linkage analysis or to clarify prenatal diagnosis and must be referred from the Genetics Clinic.

The tooth enamel gene, amelogenin, is encoded on the short arm of the X chromosome¹. The Y chromosome, however, bears an amelogenin-like sequence which is shorter by 177bp than that on the X chromosome. Knowing this, it is possible to determine tissue sex status, by PCR amplification followed by sizing with gel electrophoresis, of a fragment of this gene with specific oligonucleotide primers².

References

1. Lau, E.C., et al. *Genomics* (1989) 4: 162-168
2. Nakahori Y., et al. *A.J.M.G.* (1991) 39: 472-473



Laboratory:
Molecular Diagnostics Lab



Requisition:
[MOLECULAR DIAGNOSTIC REQUISITION](#)



Method of Analysis:
PCR



Test Schedule:
As required,
Monday to Friday 0800-
1600 hours

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Critical Information Required:

Pedigree required

Storage and Shipment:

Must be received in testing laboratory within 5 days of collection, shipped at room temperature by courier/overnight delivery.