Y-Chromosome: SRY Analysis

| Test Code: DY  | Turnaround time: 2 weeks  | CPT Codes: 81403 x1 |

**Condition Description**

**Indications**

This test is performed on patients who require a very quick analysis to determine presence/absence of Y-chromosome material, such as infants born with ambiguous genitalia, X-linked disorders, or cases of tissue mosaicism. PCR-based analysis, with male and female controls, is utilized to determine the presence/absence of the Y-chromosome. Results include which regions of the Y-chromosome were analyzed and which regions were detected.

**Methodology**

PCR-based amplification for a portion of the SRY gene, uses primers specific for the centromere, DYZ3, and specific for the q arm, Y3.4. Male and female controls are used in combination to determine the presence/absence of the Y-chromosome. Results include which regions of the Y-chromosome were analyzed and which regions were detected or absent. Point mutations or rearrangements are not detected by this analysis.

**Detection**

Over 99% of Y-chromosomes will be detected by this assay.

**Reference Range**

Qualitative assay.

**Specimen Requirements**

*Submit only 1 of the following specimen types*

**Type: DNA, Isolated**

**Specimen Requirements:**

- Microtainer
- 3µg Isolation using the Perkin Elmer™Chemagen™ Automated Extraction method or Qiagen™ Puregene kit for DNA extraction is recommended.

**Specimen Collection and Shipping:**

Refrigerate until time of shipment in 100 ng/µL in TE buffer. Ship sample at room temperature with overnight delivery.

**Type: Whole Blood (EDTA)**

**Specimen Requirements:**

- EDTA (Purple Top)
- Infants and Young Children (2 years of age to 10 years old): 3-5 ml
- Older Children & Adults: 5-10 ml
- Autopsy: 2-3 ml uncotted cord or cardiac blood

**Specimen Collection and Shipping:**

Ship sample at room temperature for receipt at EGL within 72 hours of collection. Do not freeze.