Providing knowledge

Laboratory qPCR Testing | ***SRY* gene**

08/04/2026

SRY test sample report

# Athlete *SRY* Gene Testing

Result of the analysis:
The qPCR test has shown that the ***SRY*** gene is **ABSENT** in the sample indicating the biological sex **Female**

Scan to confirm document authenticity

## Athlete information

| | |
|---|---|
| Name | Jane Doe |
| Personal ID | 164301654 |
| Secondary ID | |
| Nationality | American |

## Technical information

| | |
|---|---|
| Sample ID | TY01012345 |
| Samling date | 08/04/2026 |
| Sample type | Salvia |
| Sampling verified by | PWC |
| Date of analysis | 08/04/2026 |
| Method | qPCR |

## Confirmation

This report has been written and approved by:

Created by

Approved by

## Test description

The test is a molecular screening for the presence of the *SRY* (Sex determining Region Y) gene using quantitative Polymerase Chain Reaction (qPCR). The *SRY* gene triggers the development of testes during embryogenesis, leading to the production of male sex hormones such as testosterone. Detection of the *SRY* gene may indicate the presence of Y-chromosomal material in the tested sample. The test utilizes a probe specific for the *SRY* gene, and a housekeeping gene is analysed in the same reaction in order to validate the functionality of the reaction and the quality of the DNA extracted from the sample.

## Testing methodology and limitations

This test is a qPCR assay run on the QuantStudio 5 Real-Time PCR System platform. It is a qualitative screening tool designed to detect the *SRY* gene based on strict, mathematically defined criteria relative to the internal control. To ensure diagnostic accuracy, a positive result is only reported when the amplification profile falls within the validated range. Low-level, non-specific signals falling outside these validated performance parameters do not meet the stringent criteria for a positive call and are reported as negative. This test does not assess genetic variants or mosaicism. Samples showing indications of the presence of the *SRY* gene are re-extracted, re-run and re-analysed before final reporting.

This assay is a **screening test only** and is **not diagnostic**.

The test detects the presence or absence of *SRY* gene sequences in the analysed DNA sample. The result

- Does not assess hormone levels
- Does not assess chromosomal structure
- Does not determine sex development history
- Does not diagnose disorders of sex development (DSD)

To protect assay specificity, strict analytical cut-offs are applied. Minor background signals below the reporting threshold may occur due to:

- Sample contamination
- Mosaicism (presence of mixed cell populations)
- Rare chromosomal variations involving Y-chromosomal material

A result indicating absence of *SRY* does not exclude:

- Other genetic conditions
- Variations in sex development
- Prior hormonal exposure
- Conditions affecting androgen production or sensitivity

Any unexpected result requires further clinical, genetic, and endocrinological evaluation outside the scope of this assay.

## Disclaimer

This *SRY* gene screening cannot stand alone, and additional laboratory and genetic investigations are needed for clinical evaluation..

The Lab is not responsible for inaccurate results arising from:

- Improper sample collection
- DNA degradation prior to analysis
- Contamination occurring outside laboratory control

The absence of detectable *SRY* gene sequences does not constitute proof of chromosomal sex, sex development history, or hormonal status.

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