



Advanced Reporting by ExamenLab

Examen SDF tests provide the most sensitive and clinically actionable data on sperm DNA integrity — offering **direct measurement** of DNA breaks, not estimation, for superior prognostic value in male infertility and ART success.

Direct Measurement

DNA strand measurement

DNA Integrity

Cell-level insight

Prognostic Value

Clinical results

[Explore Reports](#)

Two Clinically Distinct Tests

ExamenLab offers two advanced sperm DNA fragmentation tests, each measuring a different type of DNA damage and providing unique clinical insights.



Exact® Test

Measures **Total SDF Damage** via direct measurement — the most accurate test for overall sperm DNA integrity.



Extend® Test

Measures **Double-Stranded DNA Damage** using ExamenLab's proprietary, patent-pending approach.



Exact® Test Report

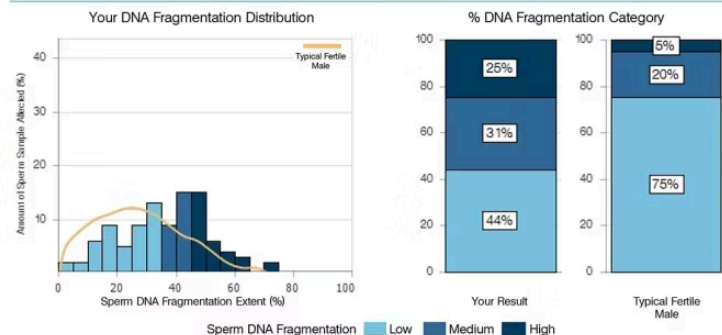
Patient & Examination Details

Patient Name: **Example** Sample Code: 25SR00010
Patient DOB: 01/01/1990 Sample Type: **Ejaculate**
Patient Clinic ID: 1234 Sample Suitable for Examination: **Yes**
Referring Clinician/GP: **Examen** Clinic Results Email: **lab@examenlab.com**
Referring Clinic: **Examen** Patient Results Email: **lab@examenlab.com**

Your Result - showing the average percentage of DNA fragmentation of each sperm in your semen sample.

	Your Result	Fertile Range	Status
Average Sperm DNA Fragmentation	36%	0 - 31%	Outside Fertile Range

Your Result Breakdown - showing the distribution of your sperm DNA fragmentation relative to a typical fertile male.



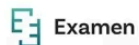
Comments

Outside the normal range, indicating a high risk of male infertility.

Sample Quality Comments: No issues found that might compromise examination results.

It is crucial to consider this Exact test result in conjunction with all other relevant clinical information available for the individuals involved in this fertility journey - including their clinical history and any existing infertility diagnosis. Therefore, it is important for patients to discuss their result with their referring clinician to ensure the most informed and effective treatment planning.

Reviewed and authorised by:
On behalf of: *Professor Tara Moore*



TEST REPORT

Exact® Test Report

The Exact® test provides a **direct measurement of Total SDF Damage** — unlike other assays that only estimate susceptibility. By determining the overall integrity of sperm DNA, it delivers the most accurate and clinically useful result for total SDF damage.

Elevated DNA fragmentation detected by Exact has been associated with reduced fertilisation rates and poorer embryo quality in ART. *Note: Exact Prep & Exact SSR results do not include comparisons to the profile of a typical fertile male.*

Understanding Your Exact® Score



0-31%

Fertile Range

An average SDF score within this range is considered normal.



>31%

Outside Fertile Range

A score above 31% indicates increased risk of infertility.

The average SDF score reflects the average percentage of DNA fragmentation across each sperm in the semen sample. For Exact, results are superimposed against the profile of a typical fertile male for direct comparison.

Exact® Report Breakdown

The Exact® report includes three key visual components to help clinicians and patients interpret results clearly.

1

DNA Fragmentation Distribution

A histogram showing the proportion (%) of sperm in low, medium, and high damage categories, with a typical fertile male profile superimposed for comparison.

2

Average Total SDF Score

The average percentage of DNA fragmentation per sperm. Scores of 0–31% are within the fertile range; above 31% indicates elevated risk.

3

% DNA Fragmentation Category

The split of the sample across low, medium, and high fragmentation categories — directly comparable to a typical fertile male.



Extend® Test Report

Patient ID: 25SR00010 Date of Sample Collection: 02 May 2025
 Location: Belfast Report Date: 22 May 2025 11:23

Extend® Test Report

Patient & Examination Details

Patient Name: Example Sample Code: 25SR00010
 Patient DOB: 01/01/1990 Sample Type: Ejaculate
 Patient Clinic ID: 1234 Sample Suitable for Examination: Yes
 Referring Clinician/GP: Examen Clinic Results Email: lab@examenlab.com
 Referring Clinic: Examen Patient Results Email: lab@examenlab.com

Your Result - showing the average percentage of DNA fragmentation of each sperm in your semen sample.

	Your Result	Fertile Range	Status
Average Double Stranded DNA Fragmentation	11.35%	0.00% - 6.00%	Outside Normal Range

Your Result Breakdown - showing the distribution of your sperm DNA fragmentation relative to a typical fertile male.

% DNA Fragmentation Category

Your Result

% DNA Fragmentation Category

Typical Fertile Male

Sperm DNA Fragmentation: Low (Light Blue), Medium (Dark Blue), High (Black)

Comments

Outside the normal range, indicating a high risk of male infertility.

Sample Quality Comments: No issues found that might compromise examination results.

It is crucial to consider this Extend test result in conjunction with all other relevant clinical information available for the individuals involved in this fertility journey - including their clinical history and any existing infertility diagnosis. Therefore, it is important for patients to discuss their result with their referring clinician to ensure the most informed and effective treatment planning.

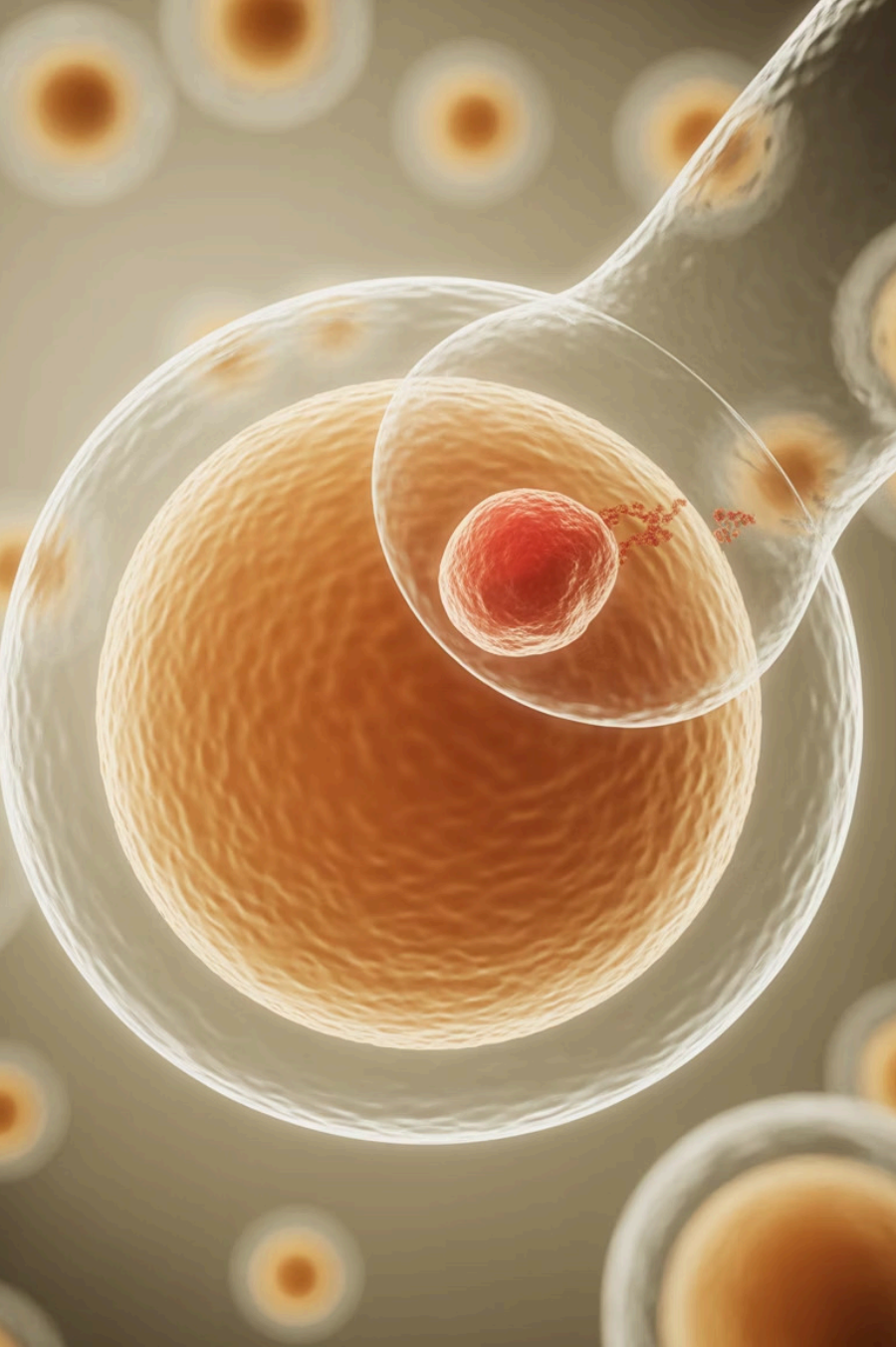
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Examen

The Extend® test uses ExamenLab's proprietary, patent-pending approach to measure **double-stranded DNA damage (dsDBs)**. Unlike single-strand SDF damage, double-strand breaks primarily originate during **spermatogenesis**.

i By detecting elevated dsDB levels, Extend helps identify male-factor contributions to recurrent pregnancy loss (RPL) and IVF success. *Note: Extend Prep results do not include comparisons to the profile of a typical fertile male.*



Why Double-Stranded Damage Matters

Cannot Self-Repair

dsDBs cannot be repaired by the mature sperm itself — repair depends entirely on the female egg.


Age-Dependent Repair Capacity

The egg's ability to repair dsDBs declines as female egg age advances, increasing clinical risk.

Linked to RPL & IVF Outcomes

Elevated dsDB levels are associated with recurrent pregnancy loss and reduced IVF treatment success.

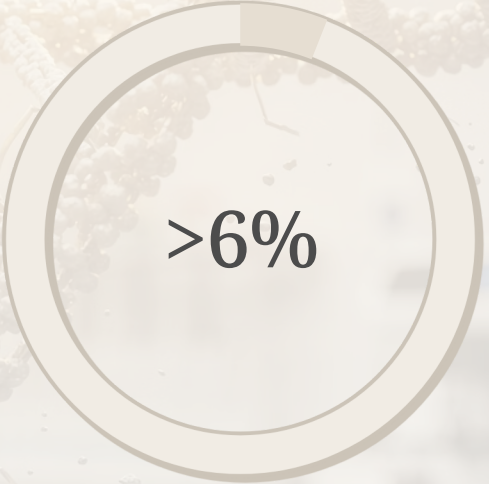
Understanding Your Extend® Score



0-6%

Fertile Range

An average dsDB score within this range is considered normal.



>6%

Outside Normal Range

A score above 6% indicates increased risk of RPL and reduced ART success.

The DNA Fragmentation Distribution Histogram within the Extend® report shows the proportion of the sample falling into low, medium, and high dsDB damage categories, providing further insight into the severity of damage.

Exact® vs Extend®: At a Glance

Feature	Exact®	Extend®
Damage Type	Total SDF (single & double strand)	Double-stranded DNA breaks only
Origin	Multiple sources	Primarily spermatogenesis
Fertile Range	0–31%	0–6%
Fertile Male Comparison	Included (standard)	Included (standard)
Key Clinical Use	Overall fertility assessment & ART	RPL & IVF outcome prediction

Clinically Actionable Insights

Examen's advanced reporting goes beyond standard SDF testing by providing **direct, quantified measurements** of both total and double-stranded DNA damage. This enables clinicians to make more informed decisions about fertility treatment pathways.

Superior Accuracy

Direct measurement, not estimation
— the gold standard for SDF
analysis.

Dual-Test Approach

Exact® and Extend® together
cover the full spectrum of sperm
DNA damage.

ART & RPL Guidance

Results directly inform ART success rates and recurrent pregnancy loss
investigations.

