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Datasheet for MB-103-0025

# Salmon Sperm DNA

## Overview

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|---|---|
| **Description:** | Salmon Sperm DNA Ready-to-Use Solution (Packaged 5 x 5 mg) - MB-103-0025 |
| **Item No.:** | MB-103-0025 |
| **Size:** | 5 x 5 mg |
| **Applications:** | FC |

## Product Details

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| **Background:** | Prepared by a modification of the method of Emanuel and Chaikoff, JBC 203, 164 (1953) from salmon testes DNA by mechanical shearing and heat denaturation to an average size of 100 to 200 base pairs. To reverse any renaturation occurring during storage, this material should be briefly boiled and rapidly chilled prior to use. >75% native nucleic acid. |
| **Synonyms:** | Salmon Sperm DNA, salmon testes DNA, single strand salmon sperm DNA, Salmon DNA, Salmon Sperm DNA Solution |
| **Reagent Type:** | DNA |

## Target Details

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| **Purity/Specificity:** | A260/A280: 1.85<br><br>% Hyperchromocity: 30.5 |
| **Relevant Links:** | • MB-103 SDS |

## Application Details

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| **Suggested Applications:** | FC (Based on references) |
| **Application Note:** | This product is a convenient, ready-to-use solution of salmon sperm DNA especially prepared for use in the preparation of pre-hybridization and hybridization solutions and as a DNA carrier in yeast transformation protocols and other related methods. This solution contains sheared single-stranded DNA molecules that can be used to block the non-specific attachment of probe DNA to the surface of a membrane (Southern) or to increase yeast transformation efficiency. |

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| **Assay Dilutions:** | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below. |

## Formulation

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| **Physical State:** | Liquid |
| **Concentration:** | 5.0 mg/mL by UV absorbance at 280 nm |
| **Buffer:** | 0.01 M Tris Chloride, 0.001 M EDTA, pH 7.6 |
| **Preservative:** | None |
| **Stabilizer:** | None |

## Shipping & Handling

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| **Shipping Condition:** | Dry Ice |
| **Storage Condition:** | Store vial at -20° C upon receipt. |
| **Expiration:** | Expiration date is six (6) months from date of receipt. |

## Images

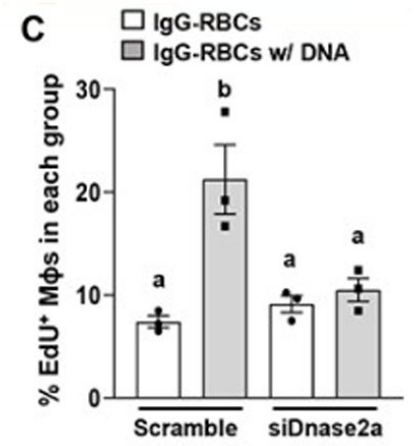
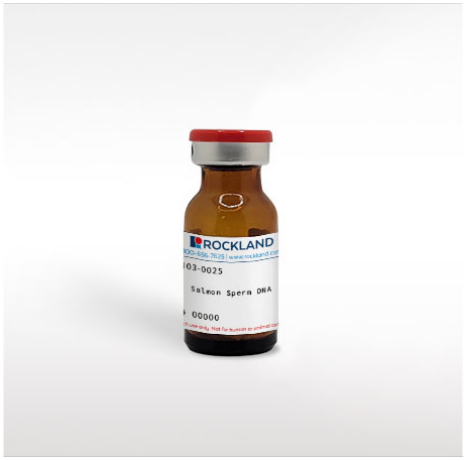



**Figure**
Degradation of AC-derived Oligonucleotides Activate DNA-PKcs and mTORC2 Activity to Promote EIMP. (C) BMDMs transfected with siDnase2a or scrambled RNA and labeled with EdU were incubated with IgG-RBCs or IgG-RBCs containing salmon sperm DNA and assayed at the 24-hour timepoint for the percentage of EdU+ macrophages (n = 3 biological replicates). Sheep Red Blood Cells 10% washed pooled cells (p/n R405-0050) and Salmon Sperm DNA Ready-to-Use Solution (p/n MB-103-0025) used. Fig 2. PMID: 34784501.




**Bottle**
Salmon Sperm DNA Ready-to-Use Solution (Packaged 5 x 5 mg)

## References


- Solis BL et al. Circadian control of dopaminergic signaling to the mushroom body regulates sleep through rhythmic Pka-C1 transcription in Drosophila. *Curr Biol.* (2026)
- Sloan NX et al. Uncovering the signatures of aging and senescence in the human dorsolateral prefrontal cortex. *Cell Genom.* (2026)
- Gutierrez-Morton E et al. Protocol to modulate SUMOylation of a specific protein in budding yeast using chemical genetic approaches. *STAR Protoc.* (2025)
- Gerlach BD et al. Efferocytosis induces macrophage proliferation to help resolve tissue injury. *Cell Metab.* (2021)


## Disclaimer

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