SARTORIUS

Product Datasheet

jetMESSENGER® mRNA Transfection Reagent

Efficient mRNA Delivery to Hard-To-Transfect Cells

Benefits

- **High Efficiency**: Achieves superior gene expression on a variety of hard-to-transfect cells, including T-, B-, and NK cells
- **Maintains Cell Integrity:** Extremely gentle on cells, ensuring high cell viability
- **Cost-Effectiveness**: Low amounts of mRNA and minimal reagent volumes required
- **Outperforms DNA Transfection**: Provides enhanced results compared to traditional DNA transfection methods

jetMESSENGER® Outperforms Its Main Competitor for T-cell GFP Expression and Viability

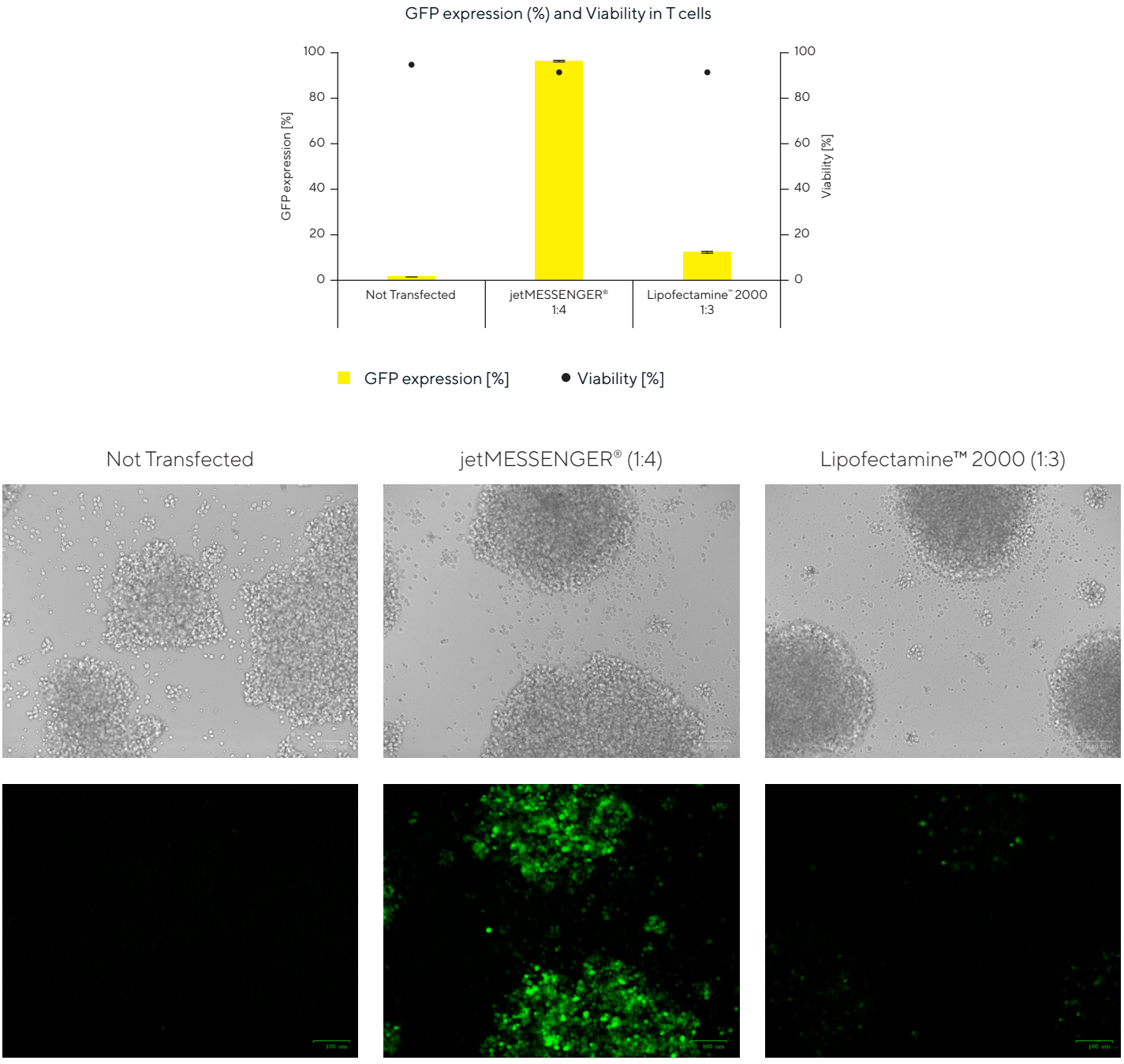

Figure 1: *GFP Expression and Corresponding Phase Images in T Cells Transfected for 48 Hours with eGFP-mRNA*

Transfection of B Cells with jetMESSENGER® Achieves Excellent GFP Expression and Viability Versus Its Main Competitor

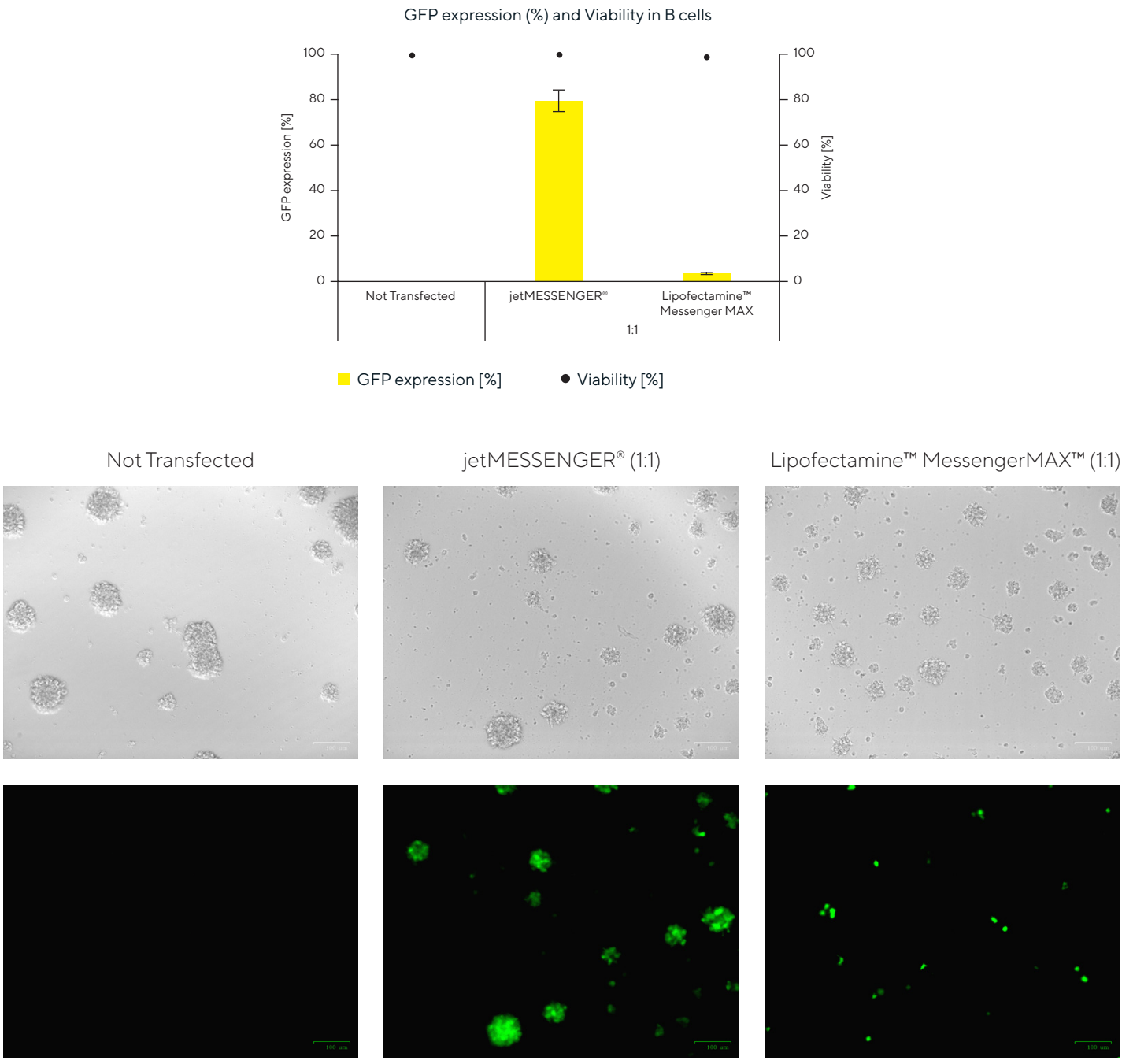

Figure 2: *GFP Expression and Corresponding Phase Images in B Cells Transfected for 24 Hours with eGFP-mRNA*

jetMESSENGER® Achieves 3-fold Greater GFP Expression in Natural Killer (NK) Cells When Optimized

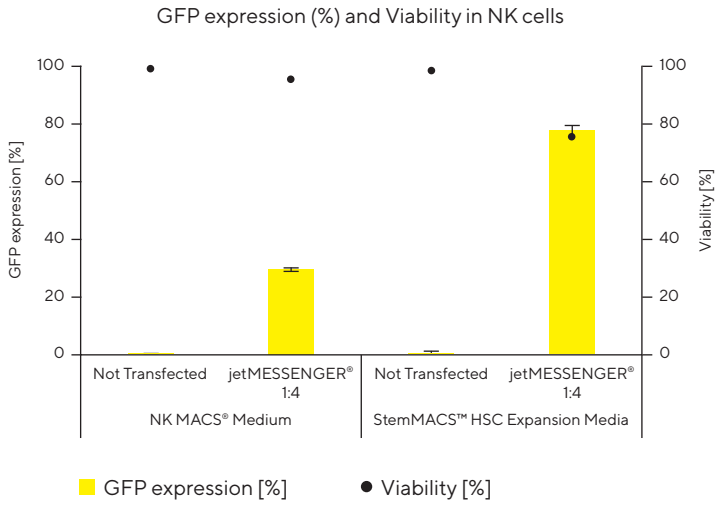

Figure 3: *GFP Expression and Viability Assessments by Flow Cytometry in NK Cells*

Technical Specifications

Molecule delivered	mRNA
Cell types	▪ Hard-to-transfect cells ▪ Adherent and suspension cells ▪ Primary cells (neurons, stem cells, immune cells, fibroblasts)
Number of transfections	1.5 mL of jetMESSENGER® transfection reagent is sufficient to perform up to 1,500 tranfections in 24-well plates or 375 transfections in 6-well plates
Storage	Store jetMESSENGER® at 5°C ± 3°C Expiry date is indicated in the certificate of analysis and on the product
Provided with	mRNA buffer

Ordering Information

Product	Description	Order Number
jetMESSENGER®	jetMESSENGER® 0.1 mL + 10 mL mRNA Buffer bottle	101000056
JetMESSENGER®	jetMESSENGER® 0.75 mL + 60 mL mRNA Buffer bottle	101000005

Samples available upon request

Learn More

Technical Note:
Efficient Transfection of Lymphocytes with mRNA Using jetMESSENGER®

Application Note: Optimizing mRNA Transfection of Human T-cells: Improving Efficiency through Live-Cell Analysis and High-Throughput Screening by Cytometry

Germany
Sartorius Lab Instruments GmbH & Co. KG
Otto-Brenner-Strasse 20
37079 Goettingen
Phone +49 551 308 0

USA
Sartorius Corporation
3874 Research Park Dr.
Ann Arbor, MI 48108
Phone +1 734 769 1600

For further information, visit
www.sartorius.com

Status: 11 | 2024 jetMESSENGER-mRNA-Transfecion-Datasheet-en-Sartorius