Mirus | The Transfection Experts

Higher Efficiency and Viability Compared to Other Electroporation Solutions

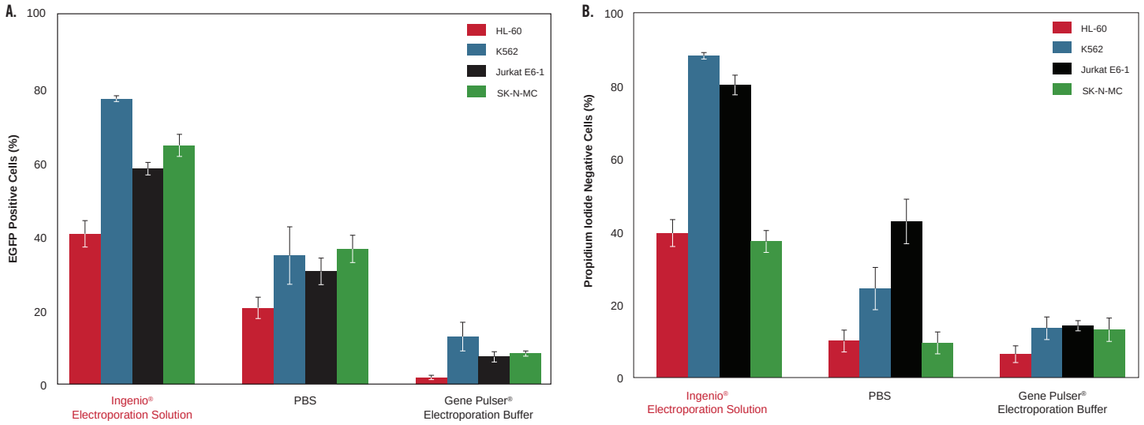

Figure 5. Ingenio® Outperforms Other Electroporation Solutions in Efficiency and Viability. Cells were electroporated in parallel with an EGFP reporter vector using either Ingenio® Electroporation Solution, PBS or Gene Pulser® Electroporation Buffer (Bio-Rad) on the Gene Pulser Xcell™ Eukaryotic System. (A) EGFP expressing cells were identified 24 hours post-electroporation by flow cytometry and presented as a percentage of the live cell population. (B) Cells were assayed for viablility by propidium iodide staining and flow cytometry analysis. Error bars represent the standard deviation of triplicate wells.

Ingenio® Electroporation Kits and Solution

Product Name	Product No.	Size
Ingenio® Electroporation Kit	MIR 50112	25 reactions
for Amaxa Nucleofector® II/2b Device	MIR 50115	50 reactions
(solution, 0.2 cm cuvettes and cell droppers)	MIR 50118	100 reactions
Ingenio® Electroporation Kit	MIR 50113	25 reactions
for other electroporators, such as Bio-Rad and Harvard-BTX	MIR 50116	50 reactions
(solution, 0.4 cm cuvettes and cell droppers)	MIR 50119	100 reactions
Ingenio® Electroporation Solution	MIR 50111	25 reactions
	MIR 50114	50 reactions
	MIR 50117	100 reactions

Ingenio® Electroporation Accessories

Product Name	Product No.	Size
0.2 cm Cuvettes	MIR 50120	25 pack
0.2 cm Cuvettes	MIR 50121	50 pack
0.4 cm Cuvettes	MIR 50122	25 pack
0.4 cm Cuvettes	MIR 50123	50 pack
Cell Droppers	MIR 50124	25 pack
Cell Droppers	MIR 50125	25 pack

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Mirus Bio products are also distributed in the U.S. by:

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To fax an order, use 1-800-926-1166.
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Ingenio® Electroporation Kits & Solution

Enhanced nucleic acid delivery using conventional electroporation devices that provide:

- High efficiency electroporation of hard to transfect cell lines, stem cells and primary cells
- Compatibility with the Amaxa® Nucleofector II/2b Device, Bio-Rad® Gene Pulser or Harvard BTX®
- Ideal electroporation for plasmid DNA or siRNA delivery
- Cost-effective alternative without compromising results

Fisher Scientific

Mirus Bio – The Transfection Experts

Providing gene delivery expertise since 1995

Why Use Ingenio® Electroporation Kits and Solution?

Mirus Bio developed the Ingenio Electroporation Solution to facilitate efficient and reliable delivery of nucleic acids to eukaryotic cells refractory to chemical transfection. Ingenio is a broad spectrum solution that supports high efficiency electroporation with minimal toxicity and replaces standard electroporation solutions including phosphate buffered saline and serum-free media. Ingenio Kits (include solution, cuvettes and cell droppers) are compatible with multiple instruments and facilitate a wide range of applications requiring nucleic acid delivery to cells. It is also available as a standalone solution.

Save on Cost Without Compromising Your Results

Product	Cost/Electroporation*	Savings
Amaxa® Nucleofector® Kit V (VCA-1003)	$14.28	-
Ingenio® Electroporation Kit (MIR 50112)	$ 8.68	39%

*Based on U.S. list prices from company websites and protocol recommendations (25 Reactions).

Comparable Efficiency to the Amaxa Nucleofector® Technology

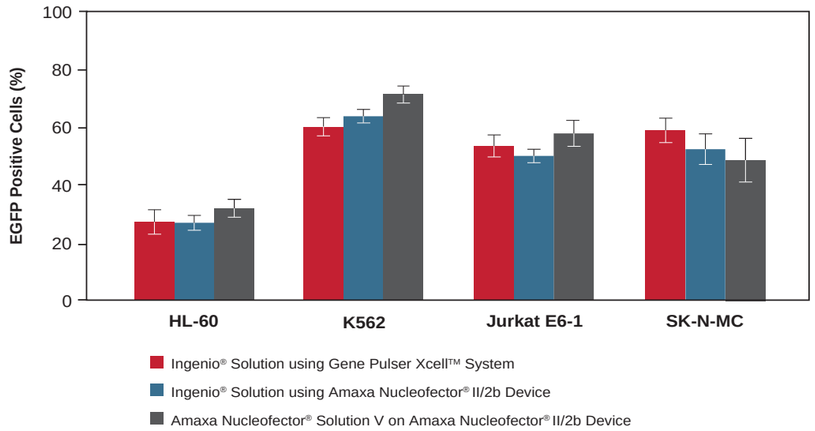

Figure 1. Ingenio® Solution Provides Comparable Efficiency on Amaxa's Nucleofector® Device. Cells were electroporated in parallel with an EGFP reporter vector and assayed at 24 hours post-electroporation by flow cytometry. Two electroporators were used with different electroporation solutions: the Ingenio® Electroporation Kit was used in the Gene Pulser Xcell™ Eukaryotic System (Bio-Rad) or the Amaxa Nucleofector® II/2b Device (Lonza); the Amaxa Nucleofector Kit V was used in the Amaxa Nucleofector® II/2b Device, all according to manufacturers' recommendations.

High Efficiency DNA Transfection of Human Induced Pluripotent Stem Cells

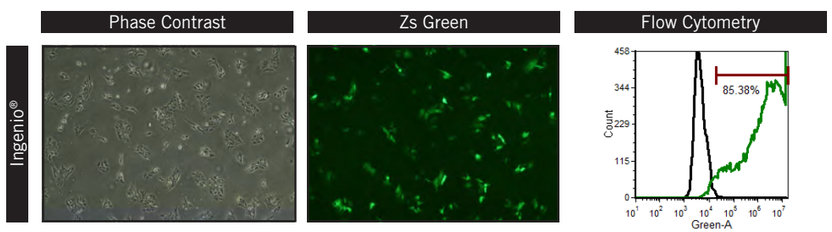

Figure 2. High Efficiency Plasmid DNA Electroporation of Human Induced Pluripotent Stem (iPS) Cells using Ingenio®. The Ingenio® Electroporation Kit was used to transfect 2 x 10^6 iPS cells on the Amaxa Nucleofector® II/2b Device. Cells were electroporated with 8 µg ZsGreen expressing plasmid (Clontech) in 100 µl and plated in 6-well plates at 0.33 x 10^6 cells/well. Cells were visualized 24 hours post-transfection and imaged under 4X objective with an Olympus IX71® Inverted Microscope. Cells were also assayed 24 hours post-transfection on an Accuri® Cytometer. The histogram shows unelectroporated cells (black line) compared to cells electroporated with plasmid using the Ingenio Electroporation Kit (green line).

Data courtesy of Cellular Dynamics international

Ingenio®: Compatibile with Amaxa Nucleofector® II/2b Device

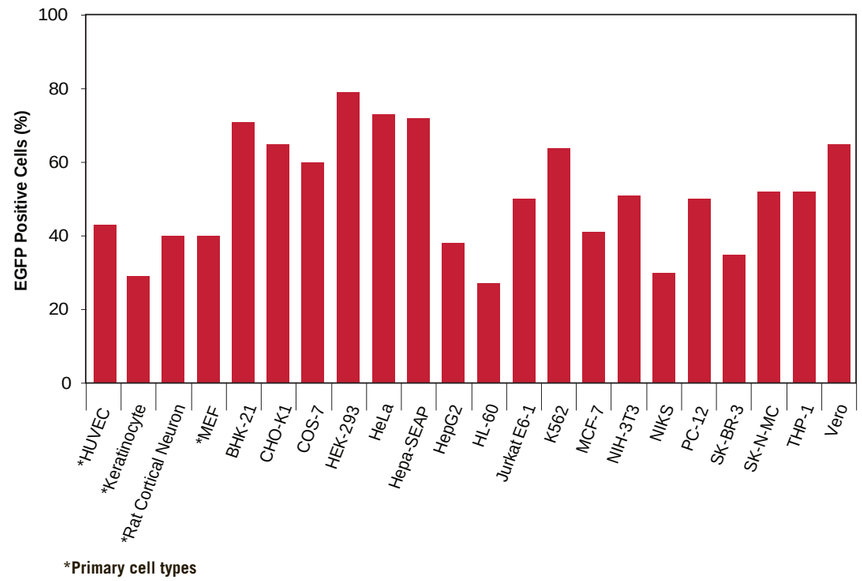

Figure 3. Ingenio® Electroporation Kits are Ideal for Electroporation in Many Cell Types Using the Amaxa Nucleofector® II/2b Device. Cells were assayed at 24 hours post-electroporation by flow cytometry and reported as percentage of live cell population. Visit www.TheTransfectionExperts.com for ideal pulse conditions.

Ingenio®: Compatibile with Bio-Rad® GenePulser Xcell™ System

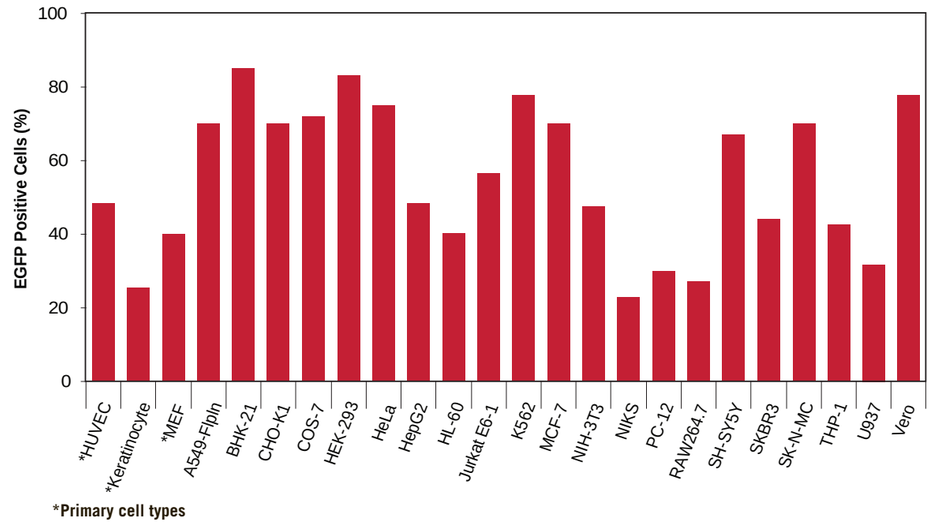

Figure 4. Ingenio® Electroporation Kits are Ideal for Electroporation in Many Cell Types Using the Bio-Rad® GenePulser Xcell™ System. EGFP expressing cells were identified 24 hours post-electroporation by flow cytometry and presented as a percentage of the live cell population. Visit www.TheTransfectionExperts.com for ideal pulse conditions.