

## Optimization of Nucleofection™ Conditions

### A Short guideline

The Cell Line Optimization Kit as well as the primary Cell Optimization Kit are working with a program matrix comprising 15 Nucleofection™ Programs for a first optimization. In most cases you will receive good results by applying this matrix only. However for maximum performance a fine tuning to reach higher efficiency or higher viability is recommended. The new kit concept enables this by offering an additional strip for fine tuning. Use these 16 reactions to further optimize your results. To do this:

- Select the best solution and the best program(s) from the first optimization round (for example **DN-100**)
- Use the table below to select alternative programs leading to higher viability (for example **DH-100**) or better efficiency (for example **ER-100**)

← Increasing viability				Best program(s)	Increasing efficiency →			
CA-113	CA-123	CA-132	CA-139	CA-137	CA-158	CA-189	CA-167	CA-201
CL-138	CM-113	CM-119	CM-132	CM-138	CM-134	CM-167	CU-138	DG-138
CL-135	CL-137	CM-134	CM-135	CM-137	CM-158	CM-189	CU-137	DG-137
CL-120	CL-150	CM-116	CM-120	CM-150	CM-198	CM-156	CU-150	DG-150
CY-100	DA-100	<b>DH-100</b>	DI-100	<b>DN-100</b>	DP-100	EH-100	<b>ER-100</b>	FA-100
DG-138	DS-113	DS-119	DS-132	DS-138	DS-134	DS-167	DT-138	ED-138
DG-135	DG-137	DS-134	DS-135	DS-137	DS-158	DS-189	DT-137	ED-137
DG-130	DS-128	DS-107	DS-118	DS-130	DS-155	DS-139	DT-130	ED-130
DG-120	DG-150	DS-116	DS-120	DS-150	DS-198	DS-156	DT-150	ED-150
DG-120	DS-106	DS-103	DS-111	DS-120	DS-141	DS-142	DT-120	ED-120
DG-113	DS-112	DS-109	DS-104	EH-100	DS-123	DS-118	DT-113	ED-113
CM-100	CV-100	DG-100	DR-100	EO-100	DT-100	DU-100	ED-100	EN-100
DZ-135	DZ-137	EH-134	EH-135	EN-138	EH-158	EH-189	ER-137	FA-137
DZ-120	DZ-150	EH-116	EH-120	EN-150	EH-198	EH-156	ER-150	FA-150
DZ-113	EH-112	EH-109	EH-104	EW-113	EH-123	EH-118	ER-113	FA-113

**Note:** Selecting pulses for higher viability will most probably led to a lower efficiency and pulses optimized for higher viability will lead to higher mortality. In case you can't reach the desired performance, please contact our Scientific Support team for assistance.

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