

Transfection of 293 T cells with Metafectene

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Protocol and Results:

Protocol: Optimisation protocol given in the manual of Metafectene (12-well plate format; number of cells seeded the day before transfection $1 \times 10e5$; 10 % FCS)

Plasmid construct: pCG-vector coding an envelope protein of Friend Murine Leukemia Virus; cells were treated with suitable antibody and positive cells were detected with FACS

	Amount [µl]	DNA [mg]	Result
			[% transfected cells]
METAFECTENE	1	0,5	76
	2	0,5	80
	4	0,5	82
	6	0,5	69
METAFECTENE	2	1,0	62
	4	1,0	82
	8	1,0	88
	12	1,0	84
METAFECTENE	4	1,5	76
	8	1,5	89
	12	1,5	90
	16	1,5	85

Standard method with Ca-chloride works best (70% positive cells) with 15 μ g DNA and 2 x10e6 cells. Reducing the cell number or DNA amount resulted in worse transfection rates.