

Comparitive Analysis of Metafectene for tranfection of SAOS cells

Data courtesy of Dr. Ernst Wolvetang – Insitute of Reproduction and Development – Clayton, VIC (Australia).

SAOS (human osteosarcoma) cells were seeded at 1×10^5 /well (Metafectene and Transfection Reagents Lipid L2 and Lipid F). Different lipid:DNA ratios were used as follows:

Metafectene/Lipid L2:

DNA (μg)	0.5	1	2	3	5
Metafectene (μl)	2	4	8	12	20
Lipid L2 (μl)	2	4	8	12	20

Lipid F

DNA (μg)	0.5	1	2	3	5
Lipid F 3:2 (μl)	0.75	1.5	3	4.5	8
Lipid F 3:1 (μl)	1.5	3	6	9	15

DNA and Metafectene/Lipid L2/Lipid F were mixed together in serum-free RPMI medium for 20 minutes, then added to cells.

Cells were incubated at 37°C in a CO_2 incubator for 48 hrs, then lysed in 5x Promega Lysis Buffer for 15 minutes. 60 μl of the lysate was then added to 60 μl 2 x β -gal buffer. Plates were read at 415 nm.

Results:

DNA	0.0 μg	0.5 μg	1.0 μg	2.0 μg	3.0 μg	5 μg
Metafectene	0,043	0,216	0,334	0,502	0,05	0,044
Lipid F 3:1	0,045	0,145	0,193	0,275	0,323	0,311
Lipid F 3:2	0,041	0,266	0,199	0,179	0,195	0,291
Lipid L2	0,047	0,154	0,115	0,052	0,044	0,044

