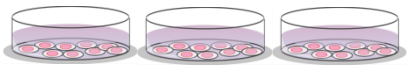
ViroMag Short Protocol

OZBIOSCIENCES
The art of delivery systems

To find the ideal conditions, ViroMag must be tested at ratio 1.5 to 6 µL/ 10^5 infectious viral particles. Adapt your MOI depending of your viral vector and the type of cells used.

1 **Seed cells to be at 70% confluent the day of transfection**



2 **Prepare 3 identical tubes of viral particles (usually MOI 1)**

96 well plate	24 well plate	6 well plate
For $1x10^4$ cells per well, dilute $1x10^4$ infectious units in 50µL x3	For $1x10^5$ cells per well, dilute $1x10^5$ infectious units in 100µL x3	For $5x10^5$ cells per well, dilute $5x10^5$ infectious units in 200µL x3

3 **Prepare 3 tubes of ViroMag (with different amounts of magnetic beads)**

96 well plate	24 well plate	6 well plate
0.15µL/0.3µL/0.6µL in an empty microtube	1.5µL/3µL/6µL in an empty microtube	7.5µL/15µL/30µL in an empty microtube

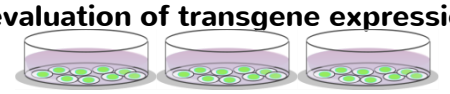
4 **Mix each tube of viral particles (step 2) to each tube of ViroMag (step 3)**

96 well plate			24 well plate			6 well plate		
Infectious units		*ViroMag*	*Infectious units*		*ViroMag*	*Infectious units*		*ViroMag*
$1x10^4$	+	0.15µL	$1x10^5$	+	1.5µL	$5x10^5$	+	7.5µL
$1x10^4$	+	0.3µL	$1x10^5$	+	3µL	$5x10^5$	+	15µL
$1x10^4$	+	0.6µL	$1x10^5$	+	6µL	$5x10^5$	+	30µL

5 **Incubate 20 min at room temperature**

6 **Distribute each mix onto the cells and Incubate the cells 20 min on the magnetic plate**

7 **Remove the cells from the magnetic plate and incubate cells for 24 to 72h at 37°C until evaluation of transgene expression**



8 **Choose the best ratio DNA:ViroMag**

NOTES: (1) 24H before transfection seed the cells in 6 wells of a 96-well plate, 3 wells of a 24-well plate or 3 wells of a 6-well plate in respectively 150 µL, 400 µL and 2 mL of complete culture medium. **(2)** Allow reagents to reach RT and gently vortex them before forming complexes . **(3)** DMEM without serum & supplement is recommended for complexes preparation. **(4)** For doses less than 1µL, dilute your reagent with deionized water.

The complete instruction manual is accessible on OZ Biosciences website:
www.ozbiosciences.com

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