



FEB 23, 2023

OPEN ACCESS

DOI:
dx.doi.org/10.17504/protocols.io.ewov1ojd2lr2/v1

Protocol Citation: Edwin Yoo 2023. Green Lab Nanoparticle For 6 Well Cardiomyocyte Transfection . **protocols.io** <https://dx.doi.org/10.17504/protocols.io.ewov1ojd2lr2/v1>

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Protocol status: Working
 We use this protocol and it's working

Created: Aug 29, 2022

Last Modified: Feb 23, 2023

PROTOCOL integer ID:
 69321

Green Lab Nanoparticle For 6 Well Cardiomyocyte Transfection

Edwin Yoo¹

¹johns hopkins



Edwin Yoo

ABSTRACT

nanoparticle transfection

MATERIALS

Sodium acetate 25mM pH5

Polymer stock (100 ug/ul)

Desired media

Nanoparticle Synthesis

1 DNA Dilution

For 3 replicate wells of one condition in 6-well plate format, mix the following in microcentrifuge

tube.

- 60 ul DNA at 1ug/ul
- 440 ul sodium acetate
- Total volume = 500 ul for 3 replicate wells per one condition

2 **Polymer Dilution (7.2 mg.ml polymer concentration in NaAc)**

For 3 replicate wells of one condition in 6-well plate format, mix the following in microcentrifuge tube.

- 40 ul polymer (e.g. 4-5-6)
- 460 ul sodium acetate
- Total volume = 500 ul for 3 replicate wells per one condition

3 **Nanoparticle Synthesis**

Combine diluted DNA with diluted polymer

- Add 500 ul of diluted DNA to 500 ul diluted polymer (can freeze here at -80 at your own risk)
- Add 5000 ul of media to 1000 ul NP's for final volume master mix of 6000 ul per condition
- Incubate for 10 minutes

4 **Transfection**

- Change media from each well of 6 well plate with 2000 ul nanoparticle master mix (media + nanoparticles)
- Incubate for 24 hours or desired time