



# Chloride and pH calibration in Hek cells

## Materials

Ensure the following materials are available before starting the procedure:

- Transfection kit: Qiagen Effectene
- Plasmid DNA: Midi or mini transfection-grade

## Procedure

### • Day 1 - Cell Seeding

- a. Seed 25,000 HEK cells per well in a Labtec chamber with 0.5 mL of culture medium.

### • Day 2: Transfection (6-hour protocol)

- a. Mix 0.3 µg of DNA with 50 µL EC buffer in a clean microcentrifuge tube.
- b. Add 2.4 µL of Enhancer, vortex gently, and incubate for 5 minutes at room temperature.
- c. Add 4 µL of Effectene, mix thoroughly, and incubate for 10 minutes at room temperature.
- d. Add the transfection mixture to the cells dropwise and incubate for 6 hours.

	1 well	... wells
Plasmid DNA	0.3 µg	
Enhancer	2.4 µL	
EC buffer	50 µL	
Effectene	4 µL	

### • Days 3 & 4: Chloride and pH Calibration

- a. Remove medium from one well carefully.
- b. Add 1 mL of the desired buffer containing ionophores (prepared fresh).