

Quantitative Control of *Legionella pneumophila* DNA

Notice

Reference : CQE_LEGDNA_01

This control was calibrated with the primary standard DNA, the DNA quantity per tube is 3.10⁴ GU

Storage

The control must be stored at **-20°C ± 3°C** .

The stability of the dehydrated control is guaranteed for 12 months if good storage conditions are applied.

Users can aliquote the control for later use, but they have to be sure of the stability of the aliquot.

Equipment and consumables required but not provided

- Diluent (pH 8.0 Buffer that can be elution buffer or PCR mix buffer)
- Calibrated micropipettes
- Sterile and « nuclease free » filter tips
- Mini bench centrifuge
- Bench mixer

Operating instructions

1. Defrost the diluent tube at room temperature. Centrifuge it for 10 seconds.
2. According to desired concentration and the loading volume of the PCR system you use, calculate the diluent volume to add in order to re-hydrate the DNA :

$$V_{\text{diluent}} = [(3.0e4 \text{ (GU/tube)} / \text{desired } C_{\text{DNA}} \text{ (GU/well)}) \times V_{\text{loading}} \text{ (}\mu\text{L/well)}]$$

3. Add the calculated diluent volume to the dehydrated DNA tube.
4. Let stand for **1 hour ± 5 minutes** at **5°C ± 3°C** without homogenizing.

The re-hydrated DNA solution is stable for **48 hours** stored at **5°C ± 3°C**.