

Bacterial DNA Storage in CrudE™ SampleMatrix®

Protocol

Objective: Preserve plasmid and genomic DNA harbored in *E. coli* by directly adding bacterial suspension into CrudE™.

Storage:

- 1) Add 5-20µl, of an *E. coli* cell culture directly into CrudE™ SampleGard® tube or plate formats.

CrudE™ can accommodate *E. coli* in most common culture media, log or stationary phase cells, and cells at densities as high as OD₆₀₀ = 4.0.

CrudE™ can protect a maximum of 30µg of total (plasmid and genomic) DNA.

Note: CrudE™ is not compatible with glycerol; glycerol stocks should not be added directly to CrudE™.

- 2) Dry samples completely at room temperature
 - Overnight on the bench-top or in laminar flow hood
 - Faster drying times can be achieved using a vacuum (refer to Biomātrica drying guidelines)
- 3) Store dried samples in an airtight container at room temperature.
 - For optimal results dry samples should be sealed with an ambient humidity of less than 50%.

Sample Recovery:

- 1) Add 5-50 µl of water to rehydrate samples
- 2) After 5 to 10 minutes, mix sample gently with a pipette.
- 3) Use directly in downstream application
 - When removing aliquots over multiple time points store sample at 4°C
- 4) Sample can be re-dried to preserve remaining DNA. Refer to storage steps 2&3.

Sample Applications:

- 1) Rehydrate samples in 20 µl, use 5 µl to transform chemically competent *E. coli*.
- 2) Rehydrate samples in 20 µl, use 1-5 µl in PCR applications.