diagenode
Innovating Epigenetics Solutions

TECHNICAL DATASHEET

Tagmentation Buffer (1x)

Cat. No. C01019042

Format: 300 µl / 1 ml

Description

Diagenode Tagmentation Buffer (1x) is the recommended reagent to perform any tagmentation reaction. It can be used in combination with Diagenode Tagmentase on low volume samples (for example DNA or chromatin immobilized on magnetic beads), because it does not require any dilution. This is the reagent used in Diagenode ChIPmentation solutions.

Storage conditions: Store at +4°C.

Precautions: This product is for research use only. Not for use in diagnostic or therapeutic procedures.

Examples of use : Diagenode Tagmentation Buffer (1x) can be used to perform the tagmentation step in the following protocols.

Fragmentation assay experiments:

- A fragmentation assay can be performed on lambda DNA, using the following incubation mix for 1 reaction:

Tagmentation Buffer (1x)	17 µl
lambda DNA (50 ng/ µl)	2 µl
Tagmentase loaded	1 µl

- The reaction is then incubated 7 minutes at 55°C
- The tagmentation can be stopped by addition of a SDS solution (0.2% final) for 5 minutes incubation at room temperature
- The DNA can then be analyzed on agarose gel

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ChIPmentation experiments:

- After Immunoprecipitation, the magnetic beads binding the antibody/chromatin complex are washed and can then be incubated with the following mix for 1 reaction :

Tagmentation Buffer (1x)	29 µl
Tagmentase loaded	1 µl
Beads/antibody/chromatin/complex*	

** The quantity of chromatin per reaction will depend on the ChIPmentation experimental design. Successful tagmentation with the proposed protocol has been performed on chromatin from 5,000 to 4,000,000 cells per reaction.*

- The reaction is then incubated 10 minutes at 37°C.
- The tagmentation reaction can then be stopped on ice with addition of a buffer containing SDS (0.1%).