

# Technical Data Sheet

## MOLEQULE-ON<sup>®</sup>

### 2X SDS-PAGE Sample Loading Buffer

Cat No. CH-M-436

#### DESCRIPTION

MOLEQULE-ON SDS-PAGE Sample Loading Buffer in 2X concentration is used for preparation and loading of protein samples onto a gel for SDS-PAGE analysis (Western blot/protein blot). SDS contained in the sample buffer makes proteins negatively charged proportionally to their length.  $\beta$ -mercaptoethanol breaks disulfide bonds, whereas, ficoll makes the sample buffer more dense than the surrounding running buffer of the protein gel, enabling easy loading into the gel wells.

#### COMPOSITION

Final concentrations in 1X buffer are 50 mM Tris-HCl pH 6.8, 2% SDS, 10% ficoll, 1%  $\beta$ -mercaptoethanol, 12.5 mM EDTA and 0.02 % bromophenol blue.

#### USE

Dilute 1 parts sample with 1 part 2X SDS-PAGE Sample Loading Buffer. Load on acrylamide gel in SDS-PAGE buffer.

#### STORAGE

Store at -20°C.

For laboratory use only. Not intended for human therapeutic or diagnostic use.