



tilibit nanosystems GmbH  
Lichtenbergstraße 8  
DE 85748 Garching b. München  
Germany  
info@tilibit.com

## tilibit 6x gel loading dye

**Conc.: 6X**  
**Vol.: 2000 µl**

**Store at -20°C**

**Product No.:** M3-11

**Lot No.:** M3-1-2

**Description:** This gel loading dye is optimised for agarose gel electrophoresis of DNA origami structures. It does not contain EDTA, SDS, or glycerol and supports straight bands in agarose gel electrophoresis. Use in 6-fold effective dilution.

Attention: Agarose gels and running buffer should contain cations to prevent denaturation of folded DNA origami structures during electrophoresis. Tilibit nanosystems GmbH recommends using 10 mM magnesium for this purpose in both the gel slab and the running buffer.

### Gel electrophoresis of DNA origami:

Photograph of an Ethidium Bromide stained 2% agarose gel on which DNA origami test samples, loaded with a conventional glycerol-based gel loading dye (left) and tilibit gel loading dye (right) were electrophoresed. Note the differences in band shape: broader, dumbbell-like band (left) compared to sharper, straight band (right).

