

Data Sheet (30.05.2014)

# DMSO/t –Butanol Solvent

## DMSO / *tert*-Butanol, 3:1

Click Chemistry

Cat.-No.	Amount
mi-C1103S	1 mL
mi-C1103M	10 x 1mL

Only for *in vitro* use!

For research only!

**DMSO/t–Butanol Solvent** is a 3:1 mixture (by volume) of DMSO and *tert*-Butanol.

**Storage conditions:** store at 4°C

### Components:

- **DMSO (*Dimethyl sulfoxide*):**

**CAS number:** 67-68-5

**Molecular formula:** C<sub>6</sub>H<sub>6</sub>OS

**Molecular weight:** 78.13 g/ mol

**Purity:** ACS grade

**Appearance:** colourless liquid

**Melting point:** 18.4 °C

- ***tert*-Butanol (*2-Methyl-2-propanol*):**

**CAS number:** 75-65-0

**Molecular formula:** C<sub>4</sub>H<sub>10</sub>O

**Molecular weight:** 74.12 g/ mol

**Purity:** ACS grade

**Appearance:** colourless liquid

**Melting point:** 23 - 26 °C

### Description

The Click reaction is a copper(I)-catalyzed azide-alkyne cycloaddition that permits DNA labeling with very high efficiency. The complete “click solution” has to contain in addition to DMSO/t-Butanol (mi-C1103) also CuBr (mi-C1101) and TBTA-Ligand (mi-C1102) to drive the labeling of alkyne-modified oligos or alkyne-modified PCR products with the desired fluorescent or non-fluorescent azides (mi-C100X). Custom synthesized oligos which are already alkyne-modified can be ordered from metabion and alkyne-modified DNA can be generated by PCR using alkyne-containing nucleotides (mi-N300X).