Data Sheet (01.02.2011)

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_6H_6OS
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: $C_4H_{10}O$
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).