

## MOLECULAR RESEARCH CENTER, INC.

### PRODUCT: BCP - Phase Separation Reagent

Cat. No: BP 151

Storage: Store at room temperature.

#### PRODUCT DESCRIPTION

The Phase Separation Reagent consists of molecular biology grade 1-bromo-3-chloropropane (BCP). BCP replaces chloroform, a highly volatile and toxic reagent used in the single-step method of RNA isolation, or the simultaneous isolation of RNA, DNA and proteins. Substituting BCP for chloroform reduces toxic material handling without any adverse effects on the quality of isolated RNA, DNA or proteins. The use of BCP as a phase separation reagent in the single-step method decreases the possibility of contaminating RNA with DNA (P. Chomczynski and K. Mackey, Anal Biochem. 225:163-164.1995).

#### PRODUCT APPLICATION

- Phase separation reagent for use with TRI Reagent®, TRI Reagent®LS and TRI Reagent®BD.

Following sample homogenization, supplement the homogenate with 0.1 ml of BCP per 1 ml of TRI Reagent® used for the homogenization. This volume of BCP replaces 0.2 ml of chloroform required in the TRI Reagent® procedure. Vigorously mix the homogenate with BCP and proceed with centrifugation and other steps of the TRI Reagent® protocol.

- BCP replaces chloroform in all versions of the single-step method. It can also replace chloroform in other protocols for the isolation of nucleic acids.

#### PRODUCT SPECIFICATION

Tested as a phase separation reagent in TRI Reagent® protocols for RNA, DNA and protein isolation.

Formula:  $C_3H_6BrCl$

Mol wt: 157.44

Purity: Molecular Biology Grade, >99%

Density: 1.592

Safety: Harmful irritant. Read MSDS and warning on the bottle.

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