



Product Insert
AccuSure™ Mix

Research Use Only

Product:
AccuSure™ Mix

Catalogue numbers:
BIO-25029 100 reactions
BIO-25030 500 reactions

Description:

- **Extremely high-fidelity coupled with high-specificity**

AccuSure™ Mix is a complete ready-to-go heat-activated 2x reaction-mix, which requires the consumer to add only water, template and primers to successfully carry out High fidelity Polymerase assays. AccuSure™ Mix has all of the properties of our AccuSure™ DNA Polymerase and is therefore ideally suited to applications requiring high-fidelity coupled with high-specificity.

The mix has been optimised for a wide variety of templates, however a 50mM magnesium solution is included in case any fine adjustments are required.

AccuSure™ Mix dramatically reduces the time needed to set up reactions, thereby reducing the risk of contamination. Greater reproducibility is ensured, by reducing the number of pipetting steps that can lead to pipetting errors.

Once reactions are optimised, the versatility of this product can be fully realised, all mixes have been tested for scalability, and the mix, (when used at 2x concentration) can be used in reaction volumes from 5µl upwards.

Extended Stability: The product was stored at +20 °C over a 5 week period and tested daily. No detectable loss of activity was evidenced.

Due to potential of microbiological contamination, +4°C storage should not exceed 4 weeks

Composition of supplied 2x ACCUSURE™ Mix

120mM Tris-HCl (pH 8.3 at 25°C)
12mM (NH₄)₂SO₄
20mM KCl
4mM MgSO₄
2mM dNTP's
Stabiliser
AccuSure™ DNA Polymerase

Batch details:

Batch No: See vial

Storage Conditions:

2x AccuSure™ Mix can be stored for:
6 months at -20°C
2 weeks at 4°C

Shipping: At 4°C or- 20°C

Repeated freeze/thaw should be avoided.

Directions for Use:

The Bioline AccuSure™ Mix is designed with ease-of-use in mind. Each reaction requires 25µl of 2x AccuSure™ Mix in addition to Primers and Template, and sufficient 18.2 mΩ water for a final reaction-volume of 50µl.

Reaction Conditions

For a 50µl reaction

AccuSure™ Mix	25µl
Template and Primers	as required
Water (ddH ₂ O)	up to 50µl

Activation: 7 minutes at 95°C

Denature: 94-97°C

Extension: 72°C Allowing 1.5-2 mins per KB

This data is intended for use as a guide only; conditions will vary from reaction to reaction and may need optimisation.

An additional tube of 50mM MgCl₂ is provided should any fine adjustments be necessary. The table below shows the volume of MgCl₂ to add to achieve different final concentrations.

Final.Magnesium concentration required	Volume of 50mM MgCl ₂ to add to a 50µl final reaction volume
2.0mM	0
2.5mM	0.5µl
3.0mM	1µl

AccuSure is a Trademark of Bioline

This product contains a declaration of analysis at the time of manufacture