

Manual

IPTG, IPTG RTU

Synthetic analog of galactose that induces expression of *E.coli lac* operon.

catalog #	size
2003-1	1 g
2003-5	5 g
2003-25	25 g
2003-15S	10 x 1.5 ml

For research use only.

Guarantee

A&A Biotechnology provides guarantee on this product.

The company does not guarantee correct performance of this kit in the event of:

- not adhering to the supplied protocol
- use of not recommended equipment or materials
- use of other reagents than recommended or which are not a component of the product
- use of expired or improperly stored product or its components



Description

IPTG

Isopropyl-β-D-1-thiogalactopyranoside

$C_9H_{18}O_5S$

MW=238,3 g/mol

IPTG is used in molecular cloning procedures that require induction of β-galactosidase activity. IPTG functions by binding to *lacI* repressor and altering its conformation which prevents the repression of β-galactosidase coding *lacZ* gene.

IPTG is used with X-gal in blue-white selection of recombinant bacterial colonies that induce expression of *lac* operon *E.coli*.

Purity >99%. Free of DNAses and RNAses.

Reagent was tested in molecular cloning and screening of white and blue colonies.

Store at -20 °C.

Application

2003-1, # 2003-5, # 2003-25

Form: lyophilisate.

We recommend dissolving lyophilisate in sterile water.

2003-15S

Form: 100 mM water solution.

Solution is ready to use.



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