

**CERTIFICATE OF ANALYSIS**

**IPTG Solution, ready-to-use**

**#R1171**      10x1.5ml

**Lot:**                      **Expiry Date:**

Concentration:    100mM aqueous solution.

**Store at -20°C**

In total 10 vials.

**Description**

100mM IPTG (isopropyl- $\beta$ -D-thiogalactopyranoside) is a non-toxic, stable, 0.22 $\mu$ m membrane-filtered ready-to-use aqueous solution. It is specially designed for direct use in conjunction with X-Gal (#R0941) to determine the *lac* phenotype in blue/white colony screening.

The IPTG is a highly stable synthetic analog of lactose. It inactivates the *lac* repressor and induces synthesis of  $\beta$ -galactosidase, an enzyme that promotes lactose utilization.

**Note**

For blue/white screening, 0.1mM final IPTG concentration in LB (Luria Broth) media is recommended.

**QUALITY CONTROL**

Dioxane-free. Functionally tested in the blue/white colony screening.

**Quality authorized by:**

*Kvederas* Rimantas Kvederas

**PRODUCT USE LIMITATION.**

This product is developed, designed and sold exclusively *for research purposes and in vitro use only*. The product was not tested for use in diagnostics or for drug development, nor is it suitable for administration to humans or animals. Please refer to [www.fermentas.com](http://www.fermentas.com) for Material Safety Data Sheet of the product.