



## IPTG [50mg/mL]

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IPTG is a soothing inducer, used for blue and white spot screening. IPTG is also a commonly used inducer of recombinant protein expression in genetic engineering.

IPTG and X-gal combined, are used for blue and white spot screening. IPTG can induce the vector Lac operon DNA segment to synthesize the aminoterminal fragment of betagalactosidase, which can achieve intragenic complementation (alpha complementation) with the defective beta-galactosidase encoded by the host cell. Bacteria that achieve alpha complementation can be formed on Xgal chromogenic substrates to form blue colonies. Insertion of foreign DNA into the multiple cloning site of the plasmid can disrupt alpha complementation and produce white colonies.

This product is prepared by dissolving IPTG with double distilled water and it is steriled by micro filtering process.

Catalog No.	515012
Size	5mL
Product Category	Cloning / Ligation
Storage/Stability	-20°C/1 year
Shipping	Gel Packs