



## Kanamycin [100mg/mL]

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X-gal is a chromogenic substrate, used for blue and white spot screening.

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 amino terminal fragment of beta-galactosidase, 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 X-gal 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 a solution of X-gal dissolved in DMF.

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|-------------------|--------------------|
| Catalog No.       | 515013             |
| Size              | 5mL                |
| Product Category  | Cloning / Ligation |
| Storage/Stability | -20°C/1 year       |
| Shipping          | Gel Packs          |