

IPTG/X-Gal Solution, Sterile (1,000X)

CAT No. APL-1036

DESCRIPTION

IPTG/X-Gal Solution is an easy-to-use, stable solution for selection of cloning constructs in all standard *lacZ* systems. It offers time and material savings for both experienced and novice investigators. IPTG/X-Gal Solution contains no hazardous toxin, dimethylsulfoxide (DMSO). IPTG/X-Gal Solution is sterilized by filtration through a 0.22 μm filter.

CONTENT

	APL-1036
IPTG/X-Gal Solution, Sterile (1,000X)	10 mL

COMPOSITION

	Stock Concentration
IPTG	167.8 mM
X-Gal	78.3 mM

STORAGE

This product should be stored at 4°C and protect from light.

FEATURES

Two options are available:

- Adding for fast and easy application to pre-poured plates.
- Molten agar prior to pouring.

PROTOCOL

Adding to pre-poured plates

1. Apply 90~125 μL of IPTG/X-Gal Solution, Sterile (1,000X) to each pre-poured agar plate.
2. Immediately spread IPTG/X-Gal Solution, Sterile (1,000X) over plate surface with a sterile spreader until completely absorbed.
3. Allow the plate surface to dry under sterile conditions (such as a laminar flow hood) for approximately 30 minutes if solution is applied to dry plates, or up to several hours if the agar plate was freshly poured. Once the surface has dried the plate is ready to use for blue/white selection of transformed cells.
4. Prepared plates may be stored protected from light at 4°C.

Batch preparation with molten agar

1. Cool agar to approximately 50°C.
2. Add 100 μ L IPTG/X-Gal Solution, Sterile (1,000X) to every 100 mL of agar. Mix well.
3. Pour agar into sterile petrie dishes (25 mL per 100 mm dish). Allow to solidify.
4. Plates may be used for blue/white selection immediately or stored protected from light at 4°C.

PRODUCT USE LIMITATION

Research use only.