

## X-gal-IPTG Ready Solution

<u>Code</u>	<u>Description</u>	<u>Size</u>
N714-10ML	X-gal-IPTG Ready Solution, 1000X (Dropper bottle) <i>Sufficient to prepare about 100 standard (100 mm) plates</i>	10 ml
N714-1.5ML	X-gal-IPTG Ready Solution, 1000X	1.5 ml

**General Information:**

X-gal-IPTG Ready 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.

X-gal-IPTG Ready Solution contains no hazardous toxins such as dimethylsulfoxide (DMSO) and dimethylformamide (DMF). X-gal-IPTG Ready Solution is sterilized by filtration through a 0.2 micron filter.

Two convenient packaging options are available:

- A convenient dropper bottle for fast and easy application to pre-poured plates or molten agar prior to pouring. Each bottle contains 10 ml of solution and can prepare approximately 100 plates.
- 1.5 ml volume supplied in microfuge tube for laboratories using smaller quantities over a 6 month period.

X-gal-IPTG Ready Solution is supplied as a 1000X concentrate (40 mg/ml IPTG, 32 mg/ml X-gal). Storage at 4°C eliminates freeze-thaw cycles that reduce selection efficiency. Agar plates containing X-gal-IPTG Ready Solution are stable up to 6 months when stored protected from light at 4°C.

**Storage/Stability:**

Stable for 6 months when stored at 4°C. Stability on agar plates is maintained for 6 months protected from light at 4°C.

**Application Disclaimer**

*For Research Use Only.  
Not for Therapeutic or Diagnostic Use.*



#### 10 ml dropper bottle:

1. Apply 2-3 drops (90-125  $\mu$ l) of X-gal-IPTG Ready Solution, 1000X, to each pre-poured agar plate.
2. Immediately spread X-gal-IPTG Ready Solution 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 for up to 6 months.

#### Batch preparation with molten agar:

1. Cool agar to approximately 50°C.
2. Add 100  $\mu$ l (or 2-3 drops) X-gal-IPTG Ready Solution, 1000X, to every 100 ml of agar.
3. Mix well.
4. Pour agar into sterile petrie dishes (25 ml per 100 mm dish).
5. Allow to solidify.
6. Plates may be used for blue/white selection immediately or stored protected from light at 4°C for up to 6 months.

#### Related Products

<u>Code</u>	<u>Product</u>
J104	LB Agar, Miller Formulation
K497	Lennox Formulation
J637	Agar, Bacteriological
0339	Ampicillin
0408	Kanamycin
N400	Freezing media

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