

**IPTG, crystallised dioxane  
CAS 367-93-1**

	Risk	19, 40, 66	EINECS	206-703-0
	Safety	36/37, 46		
	First aid	Std.		
	Spillage	E, K, H		
	Storage	0 to 5°C		
	Disposal	9, 19		

**IPTG, dioxane crystallised (Isopropyl-β-D-thiogalactopyranoside)**

Because IPTG induces β-galactosidase activity in many bacteria, it is used to maximise the expression of cloned genes under control of the *lac* operon. 32

Catalogue No	Quantity
<b>BPE1620-1</b>	1g
<b>BPE1620-10</b>	10g

C<sub>9</sub>H<sub>18</sub>O<sub>5</sub>S M.W. 238.31

*Product specification*

Specification rotation [α] <sub>D</sub> <sup>20</sup> (c=1, H <sub>2</sub> O)	-27.0° ±1.0°
TLC	Single spot
Solubility (5% in H <sub>2</sub> O)	To pass test
Optical absorbance (5% in H <sub>2</sub> O)	
at 300nm	≤0.13
at 400nm	≤0.06

**IPTG, dioxane free  
CAS 367-703-0**

	First aid	Std.
	Spillage	E, K, H
	Storage	0 to 5°C
	Disposal	9, 19

**IPTG, dioxane free (Isopropyl-β-D-thiogalactopyranoside)**

Because IPTG induces β-galactosidase activity in many bacteria, it is used to maximise the expression of cloned genes under control of the *lac* operon. 32

Catalogue No	Quantity
<b>BPE1755-1</b>	1g
<b>BPE1755-10</b>	10g
<b>BPE1755-100</b>	100g

C<sub>9</sub>H<sub>18</sub>O<sub>5</sub>S M.W. 238.31

*Product specification*

Assay (TLC)	>99.0%
Appearance	White powder or crystals
Specific rotation [α] <sub>D</sub> <sup>20</sup> (c=1, H <sub>2</sub> O)	-31.5° ±3.0°
Melting point	110° to 114°C
Dioxane (NMR analysis)	Not detected

**IPTG/X Gal solution**

	Risk	36/37/38, 61
	Safety	26, 37/39, 45, 53
	First aid	Std.
	Fire	W, P, C, F
	Spillage	C, G, H
	Storage	4°C

**IPTG/X-Gal solution ChromoMax™**

Used for blue/white colony screening. 32

Premixed IPTG/X-Gal solution. No weighing or dissolving. No DMSO or DMF required. Stable for three years.

Catalogue No	Quantity
<b>BPE4200-1</b>	1mL
<b>BPE4200-10</b>	10mL
<b>BPE4200-50</b>	5 x 10mL

**Kanamycin monosulfate  
CAS 25389-94-0**

	Risk	36/37/38, 42/43, 60, 61	EINECS	246-933-9
	Safety	26, 36/37/39		
	First aid	Std.		
	Fire	C, P, F, W		
	Spillage	C, K, H		
	Disposal	9, 19		

**Kanamycin monosulfate**

Kanamycin monosulfate inhibits protein translocation. It is used to prevent microbial contamination in tissue culture applications and to confer antibiotic resistance/sensitivity in molecular biology procedures. 32

Catalogue No	Quantity
<b>BPE906-5</b>	5g

C<sub>18</sub>H<sub>36</sub>N<sub>4</sub>O<sub>11</sub>·H<sub>2</sub>SO<sub>4</sub> M.W. 582.58

*Product specification*

pH of a 1% solution	6.5 to 8.5
Chromatographic purity	To pass USP test

Safety Data Sheets contain the hazard symbol and hazard/precautionary statements according to regulation (EC) No 1272/2008, available on Fisher Scientific Website.