

# Protect

## Microorganism Preservation System

Store it, preserve it,  
protect it



**Protect** - the original low temperature bead storage system, ideal for long term maintenance of stock and quality control microorganisms. Each vial provides 20 subcultures, dramatically reducing the cost per test versus other techniques.

Preserving in **Protect** also sustains the exact strain, permitting consistent results every time. The specially designed cryopreservative solution prevents damage whilst frozen and supports the cell whilst suspended.

The colour coded cap, beads and slimline vial combined with customised accessories simplifies the process even further. This provides a reliable long term cryopreservation method for a wide range of fastidious and non-fastidious microorganisms. All products are gamma irradiated to SAL  $10^{-6}$  for total product confidence.

### Protect Multipurpose

- Long-term storage of a wide range of bacteria, yeasts and fungi
- Frozen storage of fastidious and non fastidious organisms
- Ideal for frequent users for consistent and reliable performance control
- FDA approved permitting assured quality and traceability
- Available in Blue, White, Green, Yellow and Red



### Protect Select

**Protect Select** offers the end user a specialised range, treated to optimise recovery without extra workload. Anaerobe, Dairy and Yeast and Mould provide unique formulations that are tailored to biomass recovery. Meat Free offers full TSE free dossier traceability and security, that is so crucial in pharmaceutical and biofermentation products, especially those intended for intravenous use.

#### Anaerobe

- Improved viability and performance
- Reduced oxygen permeability and removal
- Supports and maintains cells' environment stages to reduce cell loss
- Can also be used for other delicate organisms



#### Dairy

- Based on BSI/ISO formulation and recommendations
- Dedicated storage of microorganisms isolated from dairy products, rinse waters and environmental samples



#### Yeasts and Moulds

- Easier suspension of fungal spores with spore grab formulation
- Improved Mycology Formulation for cell support
- Neutral pH for increased cell stability



#### Meat Free

- Provides the biotechnological and pharmaceutical sector with a guaranteed BSE/TSE (Bovine/Transmissible Spongiform Encephalopathy) free alternative
- Manufactured using non-animal components
- Assured storage of valuable microorganisms used within the manufacture of proprietary or veterinary medicines
- Suitable for transformed/plasmid microorganism storage



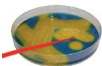
**Technical Service  
Consultants Ltd**

#### Technical Service Consultants Ltd

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## Simple to set up

- 1: Make a suspension of the organism in the vial liquid



- 3: Remove vial liquid using fine tip pastette



- 2: Shake to coat the beads



- 4: Place in freezer - done!

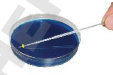


## Easy to recover

- 1: Aseptically remove one bead using a sterile needle



- 2: Roll bead directly onto medium or place in broth and incubate



## Product Information

**Protect Multipurpose** is available in a moisture resistant fibreboard box with printed user reference grid on lid and base or polypropylene tray with clear lid and reference grid on base.

**Accessories** (loops and needles) are included with the polypropylene tray. **Protect Select** is available in a moisture resistant fibreboard box with printed user reference grid on lid and base.

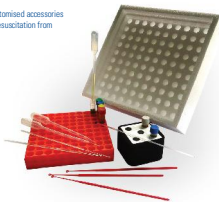
Protect	Colour	Fibreboard Box (80 vials)	Polypropylene Box (100 vials)	Polypropylene Box (100 vials)
				With accessories
<b>Multipurpose</b>	Mixed	TS80-MX	TS71-MX	TS71-MX Plus
	Blue	TS80-BL	TS71-BL	TS71-BL Plus
	Green	TS80-GN	TS71-GN	TS71-GN Plus
	Red	TS80-RD	TS71-RD	TS71-RD Plus
	White	TS80-WH	TS71-WH	TS71-WH Plus
	Yellow	TS80-YE	TS71-YE	TS71-YE Plus
<b>Protect Select - Anaerobe</b>	Orange	TS/73-AN25* TS73-AN80		
<b>Protect Select - Dairy</b>	Lilac	TS/73-AN25* TS73-DY80		
<b>Protect Select - Meat Free</b>	Black	TS/73-AN25* TS73-MF80		
<b>Protect Select - Yeast &amp; Mould</b>	Grey	TS/73-AN25* TS73-YM80		

\* Pack of 25 vials

## Protect Accessories

A range of standard and customised accessories which aid preparation and resuscitation from **Protect** or **Protect Select**.

Code	Product	Description	Pack Size
TS70-H	Cryoblock	5 wells aluminium/rubber surround	1
TS70-P	Freezer Storage Tray	For 100 vials - polystyrene	1
TS70-L	Freezer Storage Box	For 100 vials - polypropylene	6
TS30-E	Sterile Inoculation Loop 5ml	Red/soft 50 per bag	1000
TS30-G	Sterile Inoculation Loop 5ml	Red/soft single in peel pouch	1000
TS3-B	Sterile Inoculating Needle	Clear/firm 50 per bag	1000
TS3-C	Sterile Inoculating Needle	Clear/firm single in peel pouch	1000
TS126-H	Sterile Pasteur Fine Tip	Blown Plastic single in peel pouch	500
TS30-C	Sterile L-shaped Spreader	Clear/firm 25 per bag	1000
TS30-B	Sterile L-shaped Spreader	Clear/firm single in peel pouch	1000
TS11	"Orange stick" Wood Stick	Suitable for colony picking in 100s	5000



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