

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 providing a reliable long term cryopreservation method for a wide range of standard and fastidious microorganisms. Available in Red, Blue, White, Green and Yellow.

Protect General Purpose

- > Frozen storage of fastidious and non fastidious organisms
- > Ideal for frequent users to guarantee consistent and reliable performance control
- > **CE** marked and FDA approved for assured quality and traceability
- > Sterilised by Gamma Irradiation to SAL 10⁻⁶ for total product confidence



Protect Select offers the end user a specialised range, created 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.

Protect Select Anaerobe

- > Improved viability and performance with problematic microorganisms
- > Reduced oxygen permeability and removal for enhanced anaerobe survival
- > Supports and maintains cells' environment during all preservation stages to reduce cell loss
- > Can also be used for other delicate organisms besides anaerobes



Protect Select Dairy

- > Based on BSI/ISO formulation and recommendations
- > Dedicated storage of microorganisms isolated from milk and dairy products
- > Suitable for holding isolates from rinse waters and environmental samples



Protect Select Yeast and Mould

- > Offers easier suspension of fungal spores with spore grab formulation
- > Suitable for preservation of yeast cells
- > Improved Mycology Formulation for cell support
- > Neutral pH for increased cell stability



Protect Select Meat Free

- > Provides the biotechnological and pharmaceutical sector with a guaranteed BSE/TSE (Bovine/Transmissible Spongiform Encephalopathy) free alternative
- > Completely manufactured from certified vegetable derivatives
- > Assured storage of valuable microorganisms used within the manufacture of proprietary or veterinary medicines
- > No need to compromise on vessel performance or quality
- > Full product security
- > Suitable for transformed/plasmid microorganism storage



**Technical Service
Consultants Ltd**

Technical Service Consultants Ltd

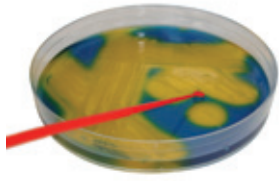
Microbiology House, Fir Street, Heywood, Lancashire OL10 1NW, UK

T : +44 (0)1706 620600 F : +44 (0)1706 620445

E : sales@tscswabs.co.uk W : www.tscswabs.co.uk

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

Products are available in a plasticised paper box (TS/70) or polypropylene tray (TS/71). Samples of all products are available upon request. Polystyrene tray available on request.

Product	Colour	Standard Package (100 vials)		Loops and Needles Included (100 vials)		Starter Kit (10 vials)
		Paper Box	Polpropylene Box	Paper Box	Polpropylene Box	
Protect	Mixed	TS70-MX	TS71-MX	TS70-MX Plus	TS71-MX Plus	TS69-MX
General Purpose	Blue	TS70-BL	TS71-BL	TS70-BL Plus	TS71-BL Plus	TS69-BL
	Green	TS70-GN	TS71-GN	TS70-GN Plus	TS71-GN Plus	TS69-GN
	Red	TS70-RD	TS71-RD	TS70-RD Plus	TS71-RD Plus	TS69-RD
	White	TS70-WH	TS71-WH	TS70-WH Plus	TS71-WH Plus	TS69-WH
	Yellow	TS70-YE	TS71-YE	TS70-YE Plus	TS71-YE Plus	TS69-YE
Protect Select Anaerobe	Orange	TS73-AN25* TS73-AN100				TS69-AN
Protect Select Dairy	Lilac	TS73-DY25* TS73-DY100				TS69-DY
Protect Select Meat Free	Black	TS73-MF25* TS73-MF100				TS69-MF
Protect Select Yeast & Mould	Grey	TS73-YM25* TS73-YM100				TS69-YM

* 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	Each
TS70-L	Freezer Storage Box	For 100 Vials Polypropylene	Each
TS30-D	Sterile Culture Loops 5µl	Red Soft 20 per Bag	1000
TS30-E	Sterile Culture Loops 5µl	Red Soft 50 per Bag	1000
TS30-G	Sterile Culture Loops 5µl	Red Soft single in peel pouch	1000
TS3-A	Sterile Needles	Clear Firm 20 per bag	1000
TS3-B	Sterile Needles	Clear Firm 50 per bag	1000
TS3-C	Sterile Needles	Clear Firm Single in Peel Pouch	1000
TS126-H	Sterile Pastette Fine Tip	Blown plastic single in peel pouch	500

