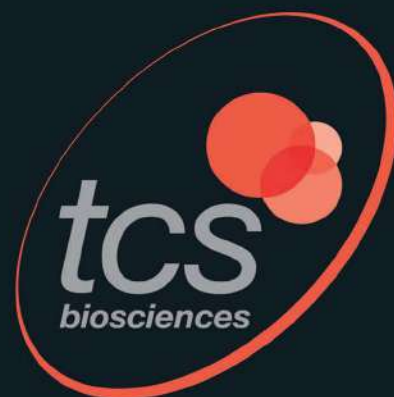


accuracy and quality as a science



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E. & O.E

Product and Price Guide

ORDERING INFORMATION

Please ensure that the following information is included on your purchase orders:

- Delivery Address
- Invoice Address (if different)
- Product Code
- Full Product Description
- Quotation Number
- VAT Exemption Certificate (where applicable)
- Purchase Order Number

Standing Orders

Many products included in this product list, particularly blood and serum, may be required on a regular basis. Please call our Customer Service team to set up your order and leave the rest to us. Alterations to standing orders can be made prior to the day of despatch. Additional orders can usually be despatched with standing orders at no extra cost.

Prices

Our aim is to maintain the prices quoted in this list. However, in the event of raw material increases beyond our control, we reserve the right to charge prices ruling at the time of despatch. Prices shown are exclusive of carriage, handling and VAT.

Despatch Times

Our aim is to despatch orders as soon as possible. Due to the perishable nature of our products we do not routinely despatch on a Friday.

Carriage Charges

Orders will be despatched by the quickest and most economical method to ensure the products arrive on time and in optimum condition. Guaranteed next day delivery pre 10am or 12pm can be arranged at additional cost.

Terms and Conditions

All other conditions are as per our Conditions of Business – please see back page.

VAT

All items listed in the Product and Price Guide are subject to value added tax at the standard rate. For customers with VAT exemption status please ensure that a VAT Exemption Certificate is presented with your order. Annual exemption can be used; please contact our Customer Service team for details.

Return of Products

In the event it becomes necessary to return a product please contact our Customer Service team to arrange the method of return. This particularly applies to our range of freeze dried organisms, the packaging of which must be carried out in accordance with national or international shipping regulations. In the unlikely event of a problem with any TCS product or service please ensure that our Customer Service team is notified within 7 days of receipt. Notification outside of this period will delay the remedial process and could result in an invalid claim.

Handling Charges

Standing Orders: For orders with a value of less than £150.00 per delivery (exclusive of VAT and carriage) a handling charge of £5.00 will be applied.

Once Off Orders: For orders with a value of less than £150.00 per delivery (exclusive of VAT and carriage) a handling charge of £8.00 will be applied.

Discounts: Quantity discounts are available for standing orders or bulk orders – please enquire.

Catalogue Issue 4

May 2025

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1. Accu-Bac Quantitative Micro-organisms

Accu-Bac is a quantitative source of quality control micro-organisms. It is a guaranteed second generation derivative of NCTC[®] and NCPF[®] cultures, manufactured under licence from UK Health Security Agency. Accu-Bac is to be used in an industrial setting.

Each carefully prepared disc will contain a target range of CFU, with 95% confidence interval stated on the Certificate of Analysis. This is ideal for most quantitative applications. Accu-Bac will be supplied in 1 disc vials and has at least a 12 month shelf-life from the date of manufacture.

- Defined target range CFU counts per disc, with 95% confidence interval range stated on the Certificate of Analysis
- Easy to use by following the simple rehydration instructions
- Guaranteed 2nd generation and fully traceable to the original NCTC[®] and NCPF[®] source strain
- Certificates of Analysis available from our website
- Identification and Characterisation testing completed in accordance within our UKAS accredited scope (UKAS accredited testing laboratory No. 2496)

This product is not currently CE marked.

Product Data

Code	Description
ABXXUL-1	Accu-Bac Ultra Low <100 CFU
ABXXL-1	Accu-Bac Low 50-150 CFU
ABXXM-1	Accu-Bac Medium 150-500 CFU

Code	Description	Size	WDCM	Price
AB94UL-1	<i>Aspergillus brasiliensis</i> NCPF [®] 2275 / ATCC [®] 16404	1 disc	00053	£7.40
AB42UL-1	<i>Candida albicans</i> NCPF [®] 3179 / ATCC [®] 10231	1 disc	00054	£7.40
AB45L-1	<i>Clostridium perfringens</i> NCTC [®] 8237 / ATCC [®] 13124	1 disc	00007	£7.40
AB45M-1	<i>Clostridium perfringens</i> NCTC [®] 8237 / ATCC [®] 13124	1 disc	00007	£7.40
AB31UL-1	<i>Clostridium sporogenes</i> NCTC [®] 532 / ATCC [®] 19404	1 disc	00008	£7.40
AB17L-1	<i>Enterococcus faecalis</i> NCTC [®] 775 / ATCC [®] 19433	1 disc	00009	£7.40
AB17M-1	<i>Enterococcus faecalis</i> NCTC [®] 775 / ATCC [®] 19433	1 disc	00009	£7.40
AB02L-1	<i>Escherichia coli</i> NCTC [®] 12241 / ATCC [®] 25922	1 disc	00013	£7.40

AB02M-1	<i>Escherichia coli</i> NCTC [®] 12241 / ATCC [®] 25922	1 disc	00013	£7.40
AB02UL-1	<i>Escherichia coli</i> NCTC [®] 12241 / ATCC [®] 25922	1 disc	00013	£7.40
AB38UL-1	<i>Escherichia coli</i> NCTC [®] 12923 / ATCC [®] 8739	1 disc	00012	£7.40
AB75L-1	<i>Escherichia coli</i> NCTC [®] 9001 / ATCC [®] 11775	1 disc	00090	£7.40
AB75M-1	<i>Escherichia coli</i> NCTC [®] 9001 / ATCC [®] 11775	1 disc	00090	£7.40
AB26L-1	<i>Klebsiella aerogenes</i> NCTC [®] 10006 / ATCC [®] 13048	1 disc	00175	£7.40
AB26M-1	<i>Klebsiella aerogenes</i> NCTC [®] 10006 / ATCC [®] 13048	1 disc	00175	£7.40
AB04H-1	<i>Klebsiella pneumoniae</i> NCTC [®] 9633 / ATCC [®] 13883	1 disc	00097	£7.40
AB04L-1	<i>Klebsiella pneumoniae</i> NCTC [®] 9633 / ATCC [®] 13883	1 disc	00097	£7.40
AB04M-1	<i>Klebsiella pneumoniae</i> NCTC [®] 9633 / ATCC [®] 13883	1 disc	00097	£7.40
AB40L-1	<i>Pseudomonas paraeruginosa</i> NCTC [®] 12924 / ATCC [®] 9027	1 disc	00026	£7.40
AB40UL-1	<i>Pseudomonas paraeruginosa</i> NCTC [®] 12924 / ATCC [®] 9027	1 disc	00026	£7.40
AB40M-1	<i>Pseudomonas paraeruginosa</i> NCTC [®] 12924 / ATCC [®] 9027	1 disc	00026	£7.40
AB11UL-1	<i>Salmonella Typhimurium</i> NCTC [®] 12023 / ATCC [®] 14028	1 disc	00031	£7.40
AB46UL-1	<i>Staphylococcus aureus</i> NCTC [®] 10788 / ATCC [®] 6538	1 disc	00032	£7.40

2. Histology

2.1: Embedding and Mounting Media

Code	Description	Size	Price
HC8535-100	Apathys Mounting Medium	100ml	£22.30
HC8610-500	DPX Mounting Medium	500ml	£34.40
HC8705-1	Gold Chloride (yellow) Sodium Salt	1g	£138.50
HC8715-100	Immersion Oil	100ml	POA
HC8725-500	Methanol (Methyl Alcohol)	500ml	£6.10
HC8728-10	Michel Medium	10ml	£4.40
HC8728-1L	Michel Medium	1L	£103.90
HC6405-500	Periodic Acid (1% aqueous)	500ml	£18.70
HC8805-100	Silver Nitrate	100g	£206.60

2.2: Buffers and Solutions

If you have a requirement for special, non-standard or standard buffers or other solutions not listed, please contact us for a quotation. We can custom manufacture buffers and solutions to your own specification or to a published protocol.

Code	Description	Size	Price
HDS10-10	Sorensen Buffer Concentrate pH 6.8	25ml x 10 vials	£29.40

3. Animal Blood Products

Horse and sheep blood products are available in other pack sizes, bottle types and bags. **Please enquire.**

3.1: Donor Sheep Blood

At TCS Biosciences Ltd, we have gained an outstanding reputation for service and satisfaction through dedication to our first business principle: quality.

Blood from our donor animals continues to play a vital role as a nutritional supplement in microbiological culture media, and also functions as a diagnostic indicator in media and test systems for clinical diagnosis.

Our specialised approach to quality assurance extends from animal husbandry through collection to processing and packaging, to ensure the consistent quality of our products.

Code	Description	Size	Price
SB053	Sheep Blood Defibrinated	25ml	£8.90
SB054	Sheep Blood Defibrinated	100ml	£23.50
SB055	Sheep Blood Defibrinated	500ml	£99.30
SB068	Sheep Blood in Alsever's	25ml	£6.80
SB069	Sheep Blood in Alsever's	100ml	£16.60
SB070	Sheep Blood in Alsever's	500ml	£73.30

3.2: Donor Horse Blood

Animal blood continues to play a vital nutritional role in microbiological culture media, and also functions as a diagnostic indicator in media and in test systems for clinical diagnosis.

For more than 50 years TCS has specialised in donor animal blood products, and has attained ever-higher standards of quality through continuous improvement of our processes. Quality assurance extends, via our supplier, Preston Farms, from animal husbandry through collection to processing, QC and packaging, to ensure you get the best possible products every time you order.

Code	Description	Size	Price
HB001B	Horse Blood Defibrinated	1 Litre (bag)	£97.30
HB029	Horse Blood Defibrinated	300ml	£35.10
HB030	Horse Blood Defibrinated	200ml	£25.50
HB032	Horse Blood Defibrinated	400ml	£47.40
HB033	Horse Blood Defibrinated	25ml	£6.10
HB034	Horse Blood Defibrinated	100ml	£14.40
HB035	Horse Blood Defibrinated	500ml	£59.20
HB047	Horse Blood in ACD	500ml	£63.10
HB048	Horse Blood in Alsever's	25ml	£4.70
HB049	Horse Blood in Alsever's	100ml	£12.20
HB050	Horse Blood in Alsever's	500ml	£52.00
HB073	Horse Blood in EDTA	500ml	£101.60
HB054	Horse Blood in Heparin	500ml	POA
HB037	Horse Blood Lysed	100ml	£17.90
HB038	Horse Blood Lysed	500ml	£81.60
HB056B	Horse Blood Lysed	1 Litre (bag)	£134.90
HB040	Horse Blood Oxalated	100ml	£14.70
HB041	Horse Blood Oxalated	500ml	£63.70

3.3: Adult Chicken Cells

Adult Chicken Cells in Alsever's. The initial volume of Alsever's is removed along with the plasma, and the cells are re-suspended in a second volume of Alsever's. Minimum PCV is 15%. Antibiotics are added to protect the product from contamination.

Code	Description	Size	Price
FB010AP	Chicken Blood Cells (Adult) in Alsever's	10ml	£68.90
FB011AP	Chicken Blood Cells (Adult) in Alsever's	25ml	£120.70
FB012AP	Chicken Blood Cells (Adult) in Alsever's	50ml	£241.20
FB013AP	Chicken Blood Cells (Adult) in Alsever's	100ml	£482.20

3.4: Rabbit Blood

Rabbit Blood in Alsever's. Final concentration is Alsever's of 50%. Minimum PCV is 15%. Antibiotics are added to protect the product from contamination.

Rabbit Blood Defibrinated. Contains no anticoagulant. Minimum PCV is 32%. Antibiotics are added to protect the product from contamination.

Code	Description	Size	Price
RB051AP	Rabbit Blood Defibrinated	25ml	£207.00
RB052AP	Rabbit Blood Defibrinated	100ml	£705.30
RB053AP	Rabbit Blood in Alsever's	25ml	£141.10
RB054AP	Rabbit Blood in Alsever's	100ml	£564.30
RB056AP	Rabbit Blood in Alsever's	10ml	£81.10

3.5: Guinea Pig Blood Cells

Guinea Pig Blood Cells in Alsever's. The initial volume of Alsever's is removed along with the plasma, and the cells are re-suspended in a second volume of Alsever's. Minimum PCV is 15%. Antibiotics are added to protect the product from contamination.

Code	Description	Size	Price
PB029AP	Guinea Pig Blood Cells in Alsever's	5ml	£81.10
PB030AP	Guinea Pig Blood Cells in Alsever's	10ml	£159.10
PB031AP	Guinea Pig Blood Cells in Alsever's	25ml	£335.80
PB032AP	Guinea Pig Blood Cells in Alsever's	100ml	£987.30

4. Human Platelet Lysate (HPL)

4.1: Fibrinogen-Depleted and Gamma-Irradiated HPL Products

Human Platelet Lysate Products (Fibrinogen-Depleted and Gamma-Irradiated)

Code	Description	Size	Price
Z11-UL40622	ELAREM Ultimate-FDi - Human Platelet Lysate, viral inactivated, fibrinogen-depleted, GMP Grade, no heparin required	50ml	POA
Z11-UL40822	ELAREM Ultimate-FDi - Human Platelet Lysate, viral inactivated, fibrinogen-depleted, GMP Grade, no heparin required	100ml	POA

4.2: Fibrinogen-Depleted HPL Products

Human Platelet Lysate Products (Fibrinogen-Depleted)

Code	Description	Size	Price
Z11-MA30311	ELAREM Matrix Kit - Human Platelet Lysate Gel	1ml	POA
Z11-PE20622	ELAREM Perform-FD - Fibrinogen-depleted human Platelet Lysate, GMP Grade, no heparin required	50ml	POA
Z11-PE30611	ELAREM Perform-FD+ -Fibrinogen-depleted Human Platelet Lysate, no heparin required	50ml	POA
Z11-PE30811	ELAREM Perform-FD+ -Fibrinogen-depleted Human Platelet Lysate, no heparin required	100ml	POA
Z11-UL41022	ELAREM Ultimate-Fdi - Human Platelet Lysate, viral inactivated, fibrinogen-depleted, GMP Grade, no heparin required	500ml	POA

4.3: Standard HPL Products

Human Platelet Lysate Products (Standard)

Code	Description	Size	Price
Z11-PE10621	ELAREM Perform - Human Platelet Lysate, GMP Grade, heparin required	50ml	POA
Z11-PE10821	ELAREM Perform - Human Platelet Lysate, GMP Grade, heparin required	100ml	POA
Z11-PE11021	ELAREM Perform - Human Platelet Lysate, GMP Grade, heparin required	500ml	POA
Z11-PE10611	ELAREM Perform - Human Platelet Lysate, heparin required	25ml	POA
Z11-PE10811	ELAREM Perform - Human Platelet Lysate, heparin required	100ml	POA
Z11-PE11011	ELAREM Perform - Human Platelet Lysate, heparin required	500ml	POA
Z11-PE20822	ELAREM Perform-FD - Fibrinogen-depleted human Platelet Lysate, GMP Grade, no heparin required	100ml	POA
Z11-PE21022	ELAREM Perform-FD - Fibrinogen-depleted human Platelet Lysate, GMP Grade, no heparin required	500ml	POA
Z11-PE20612	ELAREM Perform-FD - Fibrinogen-depleted human Platelet Lysate, no heparin required	50ml	POA
Z11-PE20812	ELAREM Perform-FD - Fibrinogen-depleted human Platelet Lysate, no heparin required	100ml	POA
Z11-PE21012	ELAREM Perform-FD - Fibrinogen-depleted human Platelet Lysate, no heparin required	500ml	POA
Z11-PR10611	ELAREM Prime - Human Platelet Lysate, heparin required	50ml	POA
Z11-PR11011	ELAREM Prime - Human Platelet Lysate, heparin required	500ml	POA

5. *Cryptosporidium* and *Giardia*

TCS is currently Europe's leading supplier to the water industry of testing reagents for *Cryptosporidium* and *Giardia*. Our range includes the best Fluorescent stains, precise quantitative controls, and our popular Isolate[®] IMS equipment and reagents.

Although the stringent water industry *Cryptosporidium* testing regulations are no longer in force, we have retained our system for ensuring continuity of supply, which means we always have stocks of key products available for immediate despatch.

5.1: Immunomagnetic Separation

Isolate[®] offers unique, semi automated immunomagnetic separation (IMS) of *Cryptosporidium* oocysts in environmental water samples. The unique automation of the Isolate[®] test standardises the rocking motion, resulting in improved consistency and reliability of results.

Isolate[®] yields increased recoveries of oocysts and produces good results even when using dirty water samples. In addition Isolate[®] is able to process pellets up to 2 ml in volume, reducing the need for split samples and multiple slides.

Cryptosporidium oocysts in the concentrate are captured and separated by magnetic action. Separated oocysts are stained with an approved Fluorescent antibody stain, and visualised by fluorescence microscopy.

Code	Description	Size	Price
ZAICS100	Isolate [®] <i>Cryptosporidium</i> IMS kit and reagents	100 Tests	£1,825.20
ZAICS0	Isolate [®] Semi-Automated Bead Recovery System		£3,167.10
ZAICS6	Leighton Tube	16 x 125mm (36 per box)	POA

5.2: Fluorescent Conjugated antibodies *Cryptosporidium* / *Giardia*

Crypto/Giardia-Cel Fluorescent Stain, produced by Cellabs and EasyStain™, produced by Biopoint are *in vitro* immunofluorescent tests for the simultaneous detection of *Cryptosporidium* oocysts and *Giardia* cysts in faecal and environmental samples.



Since we began offering Fluorescent stains in 2000, we have emerged as Europe's leading specialist supplier of *Cryptosporidium* and *Giardia* positive controls, reagents and equipment. We have focused on building a product range that includes innovative products from around the world, and which is unrivalled by any other supplier of *Cryptosporidium* and *Giardia* related products in Europe.

Code	Description	Size	Price
Z1RR2	<i>Cryptosporidium</i> and <i>Giardia</i> FITC Stain	100 Tests	£1,755.70
Z1RR2 - NEB	<i>Cryptosporidium</i> and <i>Giardia</i> FITC stain (without Evans Blue)	100 Tests	£1,755.70
Z1RR1	<i>Cryptosporidium</i> FITC Stain	100 Tests	£590.10
Z1RR1 W/O EVANB	<i>Cryptosporidium</i> FITC stain (without Evans Blue)	100 Tests	£590.10
Z1RG1	<i>Giardia</i> FITC Stain	100 Tests	£907.30
Z1RG1 - NEB	<i>Giardia</i> FITC stain (without Evans Blue)	100 Tests	£907.30
Z9EST-C240	EasyStain® <i>Cryptosporidium</i>	240 Tests	£2,943.90
Z9EST-CG240	EasyStain® <i>Cryptosporidium</i> and <i>Giardia</i>	240 Tests	£2,803.80
Z9EST-CG80	EasyStain® <i>Cryptosporidium</i> and <i>Giardia</i>	80 Tests	£1,724.10
Z1MM10	Mounting Fluid	10ml	£20.10
Z1NV12	Nail Varnish for Microscopy	8ml	£8.60

5.3: Enumerated Quality Control Products *Cryptosporidium* / *Giardia*

Since we began offering Fluorescent stains in 2000, we have emerged as Europe's leading specialist supplier of *Cryptosporidium* and *Giardia* positive controls, reagents and equipment. We have focused on building a product range that includes innovative products from around the world, and which is unrivalled by any other supplier of *Cryptosporidium* and *Giardia* related products in Europe.

Code	Description	Size	Price
Z9CS-CG100	ColorSeed™ containing 100 <i>Cryptosporidium</i> oocysts and 100 <i>Giardia</i> cysts	10 Vials	£1,212.40
Z9ES-C100	EasySeed™ containing 100 <i>Cryptosporidium</i> oocysts	10 Vials	£990.80
Z9ES-CG100	EasySeed™ containing 100 <i>Cryptosporidium</i> oocysts and <i>Giardia</i> cysts	10 Vials	£1,077.40

5.4: Inactive Bulk *Cryptosporidium* oocysts and *Giardia* cysts

Since we began offering Fluorescent stains in 2000, we have emerged as Europe's leading specialist supplier of *Cryptosporidium* and *Giardia* positive controls, reagents and equipment. We have focused on building a product range that includes innovative products from around the world, and which is unrivalled by any other supplier of *Cryptosporidium* and *Giardia* related products in Europe.

Code	Description	Size	Price
Z9C10E7	Inactive Bulk <i>Cryptosporidium</i> Oocysts 10 ⁷	1 Vial	£1,183.00
Z9C10E9	Inactive Bulk <i>Cryptosporidium</i> Oocysts 10 ⁹	1 Vial	POA
Z9GC10E6	Inactive Bulk <i>Giardia</i> Cysts 10 ⁶	1 Vial	£1,123.30
Z9GC10E7	Inactive Bulk <i>Giardia</i> Cysts 10 ⁷	1 Vial	POA

6. Bacteria and Biofilm Detection Systems

Bactiscan™ & BactiscanPRO™

User-friendly handheld bacteria and biofilm detection systems that utilise proprietary wave-alternating UV light technology to locate surface contamination, especially as a prelude to ATP swab testing in production facilities. Being lightweight, and easy-to-use, one operator can examine large areas quickly, with minimal training required. The Bactiscan™ & BactiscanPRO™ are environmentally friendly and safe for people and products, as it requires no chemicals to generate results.

Bactiscope™

A surface bacteria and biofilm detection system using EIT Internationals wave-alternating UV light technology, designed to inspect awkward to access areas and inside pipework. Images or video captured can be uploaded to an internal quality system for audit purposes or documented corrective action. Extremely environmentally friendly as it requires no chemicals or dyes.

Code	Description	Size	Price
Z-Bactiscan-1	Bactiscan	1 unit	POA
Z-BactiscanPlus-1	BactiscanPlus	1 unit	POA
Z-Bactiscanpro-1	BactiscanPRO	1 unit	POA
Z-Bactiscope-1	Bactiscope	1 unit	POA

7. Cell Culture

TCS Biosciences has been at the forefront of delivering high-quality products, empowering researchers and industries with products they can trust. We are proud to build on that legacy with the launch of our complete cell culture solutions.

Available products:

- Animal-Free Recombinant Proteins
- Dissolvable and Customisable Smart Microcarriers
- Animal Serum

Serving the needs of clinical, research and industrial scientists since 1965.

7.1: Animal Free Recombinant Proteins

TCS Biosciences Animal-Free Recombinant Proteins are designed to support your innovative scientific research. We are committed to providing you with high-quality products that deliver consistency, performance and reliability to meet the demands of today's cell culture research.

We have developed animal-free recombinant cytokines and growth factors, utilising 15 years of manufacturing expertise. They are designed to provide the scientific research markets products at competitive prices. Our animal-free recombinant proteins can be supplied to meet individual research demands, offering bespoke solutions and tailored services:

- Custom Vialling
- Lot Reservations
- Standing Orders
- Personalised Customer Support
- Manufactured in the USA

Our animal-free recombinant proteins offer quality, flexibility and value for money, while continuing to provide accuracy and quality as a science.

Code	Description	Size	Price
ZRP-ACTA-100UG	Human Activin A (Animal-Free Recombinant)	100ug	£600.00
ZRP-ACTA-1MG	Human Activin A (Animal-Free Recombinant)	1mg	£2,750.00
ZRP-ACTA-500UG	Human Activin A (Animal-Free Recombinant)	500ug	£1,840.00
ZRP-ACTA-50UG	Human Activin A (Animal-Free Recombinant)	50 ug	£350.00
ZRP-BNGF-100UG	Human beta-NGF (Animal-Free Recombinant)	100ug	£165.00
ZRP-BNGF-1MG	Human beta-NGF (Animal-Free Recombinant)	1mg	£850.00
ZRP-BNGF-500UG	Human beta-NGF (Animal-Free Recombinant)	500ug	£575.00

ZRP-BNGF-50UG	Human beta-NGF (Animal-Free Recombinant)	50ug	£110.00
ZRP-BMP2-100UG	Human BMP-2 (Animal-Free Recombinant)	100ug	£600.00
ZRP-BMP2-1MG	Human BMP-2 (Animal-Free Recombinant)	1mg	£2,750.00
ZRP-BMP2-500UG	Human BMP-2 (Animal-Free Recombinant)	500ug	£1,840.00
ZRP-BMP2-50UG	Human BMP-2 (Animal-Free Recombinant)	50 ug	£350.00
ZRP-BMP4-100UG	Human BMP-4 (Animal-Free Recombinant)	100ug	£650.00
ZRP-BMP4-10UG	Human BMP-4 (Animal-Free Recombinant)	10 ug	£155.00
ZRP-BMP4-25UG	Human BMP-4 (Animal-Free Recombinant)	25ug	POA
ZRP-BMP4-50UG	Human BMP-4 (Animal-Free Recombinant)	50ug	£375.00
ZRP-EGF-100UG	Human EGF (Animal-Free Recombinant)	100 ug	£55.00
ZRP-EGF-1MG	Human EGF (Animal-Free Recombinant)	1mg	£185.00
ZRP-EGF-500UG	Human EGF (Animal-Free Recombinant)	500 ug	£135.00
ZRP-FGF8-100UG	Human FGF-8 (Animal-Free Recombinant)	100ug	£445.00
ZRP-FGF8-10UG	Human FGF-8 (Animal-Free Recombinant)	10 ug	£110.00
ZRP-FGF8-1MG	Human FGF-8 (Animal-Free Recombinant)	1mg	£2,200.00
ZRP-FGF8-250UG	Human FGF-8 (Animal-Free Recombinant)	250ug	POA
ZRP-FGF8-25UG	Human FGF-8 (Animal-Free Recombinant)	25ug	£155.00
ZRP-FGF8-500UG	Human FGF-8 (Animal-Free Recombinant)	500ug	£1,375.00
ZRP-FGF8-50UG	Human FGF-8 (Animal-Free Recombinant)	50ug	POA
ZRP-FGFB-100UG	Human FGF-basic (154 a.a.) (Animal-Free Recombinant)	100ug	£175.00
ZRP-FGFB-10UG	Human FGF-basic (154 a.a.) (Animal-Free Recombinant)	10ug	£65.00
ZRP-FGFB-1MG	Human FGF-basic (154 a.a.) (Animal-Free Recombinant)	1mg	£675.00
ZRP-FGFB-500UG	Human FGF-basic (154 a.a.) (Animal-Free Recombinant)	500ug	£400.00
ZRP-FGFB-50UG	Human FGF-basic (154 a.a.) (Animal-Free Recombinant)	50ug	£150.00
ZRP-Flt3-100UG	Human Flt3-Ligand (Animal-Free Recombinant)	100ug	£600.00

ZRP-Flt3-10UG	Human Flt3-Ligand (Animal-Free Recombinant)	10ug	£170.00
ZRP-GMCSF-100UG	Human GM-CSF (Animal-Free Recombinant)	100ug	£475.00
ZRP-GMCSF-10UG	Human GM-CSF (Animal-Free Recombinant)	10 ug	£110.00
ZRP-GMCSF-1MG	Human GM-CSF (Animal-Free Recombinant)	1mg	£2,500.00
ZRP-GMCSF-250UG	Human GM-CSF (Animal-Free Recombinant)	250ug	POA
ZRP-GMCSF-25UG	Human GM-CSF (Animal-Free Recombinant)	25ug	POA
ZRP-GMCSF-500UG	Human GM-CSF (Animal-Free Recombinant)	500ug	£1,550.00
ZRP-GMCSF-50UG	Human GM-CSF (Animal-Free Recombinant)	50ug	POA
ZRP-IL2-100UG	Human IL-2 (Animal-Free Recombinant)	100 ug	£175.00
ZRP-IL2-1MG	Human IL-2 (Animal-Free Recombinant)	1mg	£600.00
ZRP-IL2-500UG	Human IL-2 (Animal-Free Recombinant)	500ug	£380.00
ZRP-IL2-50UG	Human IL-2 (Animal-Free Recombinant)	50ug	£155.00
ZRP-IL3-100UG	Human IL-3 (Animal-Free Recombinant)	100ug	POA
ZRP-IL3-10UG	Human IL-3 (Animal-Free Recombinant)	10 ug	£130.00
ZRP-IL3-1MG	Human IL-3 (Animal-Free Recombinant)	1mg	£2,500.00
ZRP-IL3-25UG	Human IL-3 (Animal-Free Recombinant)	25ug	POA
ZRP-IL3-500UG	Human IL-3 (Animal-Free Recombinant)	500ug	£1,450.00
ZRP-IL3-50UG	Human IL-3 (Animal-Free Recombinant)	50ug	£305.00
ZRP-IL4-100UG	Human IL-4 (Animal-Free Recombinant)	100ug	POA
ZRP-IL4-1MG	Human IL-4 (Animal-Free Recombinant)	1mg	£2,250.00
ZRP-IL4-500UG	Human IL-4 (Animal-Free Recombinant)	100ug	£1,450.00
ZRP-IL4-50UG	Human IL-4 (Animal-Free Recombinant)	50ug	£325.00
ZRP-IL4-5UG	Human IL-4 (Animal-Free Recombinant)	5 ug	£80.00
ZRP-IL7-100UG	Human IL-7 (Animal-Free Recombinant)	100ug	£750.00
ZRP-IL7-10UG	Human IL-7 (Animal-Free Recombinant)	10 ug	£175.00

ZRP-IL7-1MG	Human IL-7 (Animal-Free Recombinant)	1mg	£3,750.00
ZRP-IL7-250UG	Human IL-7 (Animal-Free Recombinant)	250ug	POA
ZRP-IL7-25UG	Human IL-7 (Animal-Free Recombinant)	25ug	POA
ZRP-IL7-500UG	Human IL-7 (Animal-Free Recombinant)	500ug	£2,100.00
ZRP-IL7-50UG	Human IL-7 (Animal-Free Recombinant)	50ug	£495.00
ZRP-IL7-5UG	Human IL-7 (Animal-Free Recombinant)	5ug	POA
ZRP-MCSF-100UG	Human M-CSF (Animal-Free Recombinant)	100ug	£575.00
ZRP-MCSF-10UG	Human M-CSF (Animal-Free Recombinant)	10 ug	£170.00
ZRP-MCSF-1MG	Human M-CSF (Animal-Free Recombinant)	1mg	£2,750.00
ZRP-MCSF-500UG	Human M-CSF (Animal-Free Recombinant)	500ug	£1,840.00
ZRP-MCSF-50UG	Human M-CSF (Animal-Free Recombinant)	50ug	POA
ZRP-PDGFBB-10UG	Human PDGF-BB (Animal-Free Recombinant)	10ug	£150.00
ZRP-PDGFBB-25UG	Human PDGF-BB (Animal-Free Recombinant)	25ug	£215.00
ZRP-PDGFBB-5UG	Human PDGF-BB (Animal-Free Recombinant)	5 ug	£110.00
ZRP- TPO-10UG	Human TPO (Animal-Free Recombinant)	10 ug	£170.00
ZRP-TPO-100UG	Human TPO (Animal-Free Recombinant)	100ug	£700.00
ZRP-TPO-1MG	Human TPO (Animal-Free Recombinant)	1mg	£3,250.00
ZRP-TPO-500UG	Human TPO (Animal-Free Recombinant)	500ug	£1,840.00
ZRP-TPO-50UG	Human TPO (Animal-Free Recombinant)	50ug	POA
ZRP-VEGF-100UG	Human VEGF 165 (Animal-Free Recombinant)	100ug	£600.00
ZRP-VEGF-1MG	Human VEGF 165 (Animal-Free Recombinant)	1mg	£2,750.00
ZRP-VEGF-500UG	Human VEGF 165 (Animal-Free Recombinant)	500ug	£1,840.00
ZRP-VEGF-50UG	Human VEGF 165 (Animal-Free Recombinant)	50 ug	£350.00

7.2: Smart Biomaterials and μ -Solutions

We're pleased to announce we are now an official distributor of Smart MCs products, helping researchers across the UK and Europe access our smart microcarriers, hydrogels, and microfluidics tools more easily.

Our product range is designed to support and enhance your research:

- **Smart Microcarriers** – Optimised surface area for better cell attachment and growth, broad compatibility with various cell types, and scalable solutions for all applications.
- **Hydrogels** – Developed for precise 3D cell culture and advanced tissue engineering applications.
- **Microfluidics** – High-performance tools for droplet generation, precise fluid control, and complex microfluidic systems

Code	Description	Size	Price
ZSMC-ALGMA-05	AlgMA Alginate Methacryloyl 0.5g	0.5g	£235.28
ZSMC-ALGMA-50	AlgMA Alginate Methacryloyl 50g	50g	£16,524.23
ZSMC-ALGMA-5	AlgMA Alginate Methacryloyl 5g	5g	£1,882.23
ZSMC-GEL-30-100	GelMA Gelatin Methacryloyl 100g	100g	£15,320.48
ZSMC-GEL-60-100	GelMA Gelatin Methacryloyl 100g	100g	£15,320.48
ZSMC-GEL-90-100	GelMA Gelatin Methacryloyl 100g	100g	£15,320.48
ZSMC-GEL-30-10	GelMA Gelatin Methacryloyl 10g	10g	£1,750.91
ZSMC-GEL-60-10	GelMA Gelatin Methacryloyl 10g	10g	£1,750.91
ZSMC-GEL-90-10	GelMA Gelatin Methacryloyl 10g	10g	£1,750.91
ZSMC-GEL-30-1	GelMA Gelatin Methacryloyl 1g	1g	£218.86
ZSMC-GEL-60-1	GelMA Gelatin Methacryloyl 1g	1g	£218.86
ZSMC-GEL-90-1	GelMA Gelatin Methacryloyl 1g	1g	£218.86
ZSMC-HAMA-05	HAMA Hyaluronic Acid MC 0.5g	0.5g	£350.18
ZSMC-HAMA-50	HAMA Hyaluronic Acid MC 50g	50g	£24,512.77
ZSMC-HAMA-5	HAMA Hyaluronic Acid MC 5g	5g	£2,801.46
ZSMC-Starter	Microcarrier Starter Programme	Details to be added per deal	POA
ZSMC-P1	P1 Microcarrier	Per cm ²	POA
ZSMC-P2HG	P2 Microcarrier(HGC)	Per cm ²	POA
ZSMC-P2G	P2 Microcarrier(GC)	Per cm ²	POA
ZSMC-HYDROSCRN	Screening Kit: 4 Hydrogels	Kit	£656.59
ZSMC-SILKMA-100	SilkMA Silk Fibroin Methacryloyl 100g	100g	£16,524.23
ZSMC-SILKMA-10	SilkMA Silk Fibroin Methacryloyl 10g	10g	£1,882.23
ZSMC-SILKMA-1	SilkMA Silk Fibroin Methacryloyl 1g	1g	£235.28

ZSMC-SmEm-1000	Smart Emulsifier Droplet Generation Oil 1000ml (SE)	1000ml	£656.59
ZSMC-SmEm-100	Smart Emulsifier Droplet Generation Oil 100ml (SE)	100ml	£262.64
ZSMC-SmEm-10	Smart Emulsifier Droplet Generation Oil 10ml (SE)	10ml	£65.66
ZSMC-SmEm-5000	Smart Emulsifier Droplet Generation Oil 5000ml (SE)	5000ml	£1,969.78
ZSMC-SmEm-500	Smart Emulsifier Droplet Generation Oil 500ml (SE)	500ml	£459.61
ZSMC-SmEm-50	Smart Emulsifier Droplet Generation Oil 50ml (SE)	50ml	£131.32
ZSMC-X1H	X1 Microcarrier (Hard)	Per cm ²	POA
ZSMC-X1M	X1 Microcarrier (Medium)	Per cm ²	POA
ZSMC-X1S	X1 Microcarrier (Soft)	Per cm ²	POA

7.3: Animal Serum and Plasma

Animal Serum and Plasma Sterile serum is widely used in cell culture, microbiology and in the preparation of diagnostic kits.

Donor animals are screened for viruses and pathogens prior to being introduced into the donor groups. Processing is carried out in accordance with our strict operating procedures. Certificates of analysis are available upon request.

We are aware that some customers do not require Animal Serum and Plasma which has been through the stringent control procedures described above.

Many of our customers use Animal Serum and Plasma for non-critical procedures or for research and development applications. We now offer a value for money range of alternative products.

Our Animal Serum and Plasma products are each sourced from an identified origin. These products carry limited documentation, including a certificate of conformity.

Please note: Orders will be shipped out on dry ice, standard charge will apply. If you do not wish to have your order sent on dry ice, please [contact](#) our Customer Service Team.

Donor Horse Serum - Serum Grade Options

To meet all your laboratory needs, depending on your application, we are pleased to offer 2 grades of our 0.1µm sterile filtered Donor Horse Serum. These are all manufactured in our Buckinghamshire facility, supported by the same production principles, traceability and our very high quality standards. All grades are supplied with a Certificate of Analysis. The differences between the grades are summarised below:

- Reagent grade: endotoxin <10 EU/ml
- Laboratory grade: endotoxin <50 EU/ml

Please [contact us](#) to discuss your requirement.

Code	Description	Size	Price
CSF02	Donor Bovine Serum, Gamma Irradiated New Zealand Origin	500ml	POA
CSF100	Donor Bovine Serum, Gamma Irradiated New Zealand Origin	1000ml	POA
CS0021	Donor Bovine Serum, Heat Inactivated New Zealand Origin	500ml	POA
DBS100	Donor Bovine Serum, New Zealand Origin	1000ml	POA
DBS500	Donor Bovine Serum, New Zealand Origin	500ml	POA
HA001	Donor Horse Serum, Defibrinated UK Origin	100ml	£14.30
HA002	Donor Horse Serum, Defibrinated UK Origin	500ml	£58.90
HA005	Donor Horse Serum, Heat Inactivated UK Origin	100ml	£15.60

HA006	Donor Horse Serum, Heat Inactivated UK Origin	500ml	£62.60
FBSIAE1000	Fetal Bovine Serum Gamma Irradiated, Australian Origin	1000ml	POA
FBSIAE500	Fetal Bovine Serum Gamma Irradiated, Australian Origin	500ml	POA
FBSIN1000	Fetal Bovine Serum Gamma Irradiated, New Zealand Origin	1000ml	POA
FBSIN500	Fetal Bovine Serum Gamma Irradiated, New Zealand Origin	500ml	POA
FBSIU1000	Fetal Bovine Serum Gamma Irradiated, US Origin	1000ml	POA
FBSIU500	Fetal Bovine Serum Gamma Irradiated, US Origin	500ml	POA
FBSAE1000	Fetal Bovine Serum, Australian Origin	1000ml	POA
FBSAE500	Fetal Bovine Serum, Australian Origin	500ml	POA
FBSN1000	Fetal Bovine Serum, New Zealand Origin	1000ml	POA
FBSN500	Fetal Bovine Serum, New Zealand Origin	500ml	POA
FBSU1000	Fetal Bovine Serum, US Origin	1000ml	POA
FBSU500	Fetal Bovine Serum, US Origin	500ml	POA
HS019	Horse Plasma, Citrated	500ml	POA
HS018	Horse Plasma, Heparinised	500ml	POA
CS004	Newborn Calf Serum, New Zealand Origin	500ml	POA

7.4: Bovine Serum Albumin

Bovine Serum Albumin is a large, stable, soluble, monomeric, globular protein which makes up about half of the total serum protein. Due to its binding and transporting properties, BSA acts primarily as a carrier protein for hormones, fatty acids, trace minerals, vitamins and iron. However, it also plays a role in stabilising extracellular fluid volume and maintaining osmotic balance, as well as binding harmful toxins and free radicals.

Its *in vitro* uses are diverse, ranging from pharmaceutical and medical applications to agriculture and chemical manufacture.

We also offer a batch reservation service. Please enquire for more details.

Code	Description	Size	Price
SAB905	Bovine Serum Albumin (Non Sterile)	5g	POA
SAB910	Bovine Serum Albumin (Non Sterile)	10g	POA
SAB925	Bovine Serum Albumin (Non Sterile)	25g	POA

7.5: Fibronectin-Cytocaf

Also available in larger pack sizes, please [contact us for details](#).

MarraBio's proprietary engineered Caf1 proteins provide an easy to use, ultra stable, scalable and xeno-free alternative to the extracellular matrix proteins and growth factors used in mammalian cell culture.

- Easy to handle
- Simple protocol
- Characterised and defined
- Free from animal material
- Multiple bioactive modules
- Scalable production

Code	Description	Size	Price
ZAK-MB001-1	Fibronectin-Cytocaf	1 x 1ml	£300.00
ZAK-MB002-1	Vitronectin-Cytocaf	1 x 1ml	£48.00

7.6: Vitronectin-Cytocaf

Also available in larger pack sizes, please [contact us for details](#).

MarraBio's proprietary engineered Caf1 proteins provide an easy to use, ultra stable, scalable and xeno-free alternative to the extracellular matrix proteins and growth factors used in mammalian cell culture.

- Easy to handle
- Simple protocol
- Characterised and defined
- Free from animal material
- Multiple bioactive modules
- Scalable production

8. Cardinal Biologicals Inc.

8.1: Body Fluids

Code	Description	Size	Price
Z12-600-63	Cadaveric CSF		POA
Z12-600-60	Cerebral Spinal Fluid		POA
Z12-600-62	Seminal Fluid		POA
Z12-600-61	Urine		POA

8.2: Microscope Slides - Stained

Code	Description	Size	Price
Z12-300-33	Animal Microscope Slides - Stained		POA
Z12-300-32	Human Microscope Slides - Stained		POA

8.3: Microscope Slides - Unstained

Code	Description	Size	Price
Z12-300-31	Animal Microscope Slides - Unstained		POA
Z12-300-30	Human Microscope Slides - Unstained		POA

8.4: Placentas

Code	Description	Size	Price
Z12-100-15	Amniotic Fluid		POA
Z12-100-11	Placentas- Fresh		POA

Z12-100-12	Placentas- Frozen	POA
Z12-100-13	Placentas- Pre cut	POA
Z12-100-14	Umbilical Cords	POA

9. Colikat

COLIKAT RAPID is a rapid test for the simultaneous detection of total coliforms and *Escherichia coli* in a wide range of water sample matrices.

Code	Description	Size	Price
ZCK-95-1900	COLIKAT RAPID®	25 tests for 100ml samples	£68.00
ZCK-95-1909	COLIKAT RAPID® Antifoam Agent	20ml for 200 tests	£12.40
ZCK-95-1915	COLIKAT RAPID® Comperator Enumeration Tray 51	1 Comperator	£15.60
ZCK-95-1916	COLIKAT RAPID® Comperator Enumeration Tray 97	1 Comperator	£15.60
ZCK-95-1917	COLIKAT RAPID® Comperator Vessel	Sample Vessel 120ml	£15.60
ZCK-95-1902	COLIKAT RAPID® Enumeration Tray 51	10 sterile Enumeration Trays in bag	£11.20
ZCK-95-1904	COLIKAT RAPID® Enumeration Tray 97	10 sterile Enumeration Trays in bag	£16.40
ZCK-95-1950	COLIKAT RAPID® Seal Applicator	1 sealer to seal COLIKAT RAPID® Enumeration Tray 51 and 97	£4,349.70
ZCK-95-1911	Colikat Sample Vessels 120ml	100 vessels, sterile, 100ml mark	£74.60
ZCK-95-1910	Colikat Sample Vessels 120ml w. sodium thiosulfate	100 vessels, sterile, 100ml mark	£76.20

10. Microbiological Media

10.1: BactiCount Dipslides

Dimanco BactiCount slides are designed to monitor working surfaces and fluids for bacterial or fungal contamination. Sides of meat and similar surfaces can also be tested. BactiCount is a plastic slide coated on both sides with microbiological culture media and is contained in its own sterile tube. The slide is hinged for ease of use.

Also available is the Incubator for BactiCount. A robust design manufactured from an unbreakable acid-proof synthetic material. The Incubator holds a maximum of 20 slides and the temperature can be adjusted from ambient to 40°C. Incubators are supplied with the temperature pre-set at 35°C.

Code	Description	Size	Price
Z3PC210	APHA Plate Count Agar	10 Slides	£13.10
Z3BV10	Baird Park Medium / VRBG	10 Slides	£16.20
Z3BRB2	Double Rose Bengal Agar for Yeasts and Fungi Only	10 Slides	£14.60
Z3E10	Enterobacteriaceae for Bile Tolerant Organisms	10 Slides	£13.10
Z3-CULT	Incubator	Each	£506.80
Z3SC2	Nutrient Agar / MacConkey No.3	10 Slides	£13.10
Z3SCN10	Nutrient Agar / MacConkey No.3 with Neutralisers	10 Slides	£13.10
Z3SRB10	Nutrient Agar / Pseudomonas CFC Agar	10 Slides	£13.10
Z3BT2	Nutrient Agar with TTC	10 Slides	£13.10
Z3BTM2	Nutrient Agar with TTC / Malt Extract	10 Slides	£13.10
Z3RBS10	Nutrient Agar with TTC / Rose Bengal Chloramphenicol Agar	10 Slides	£13.10
Z3TV10	Plate Count / VRBG Agar with Neutralisers	10 Slides	£13.10
Z3PO10	Plate Count Agar / OGYE Agar	10 Slides	£13.10
Z3TP10	Plate Count Agar with Neutralisers	10 Slides	£13.10
Z3TT2	Standard Urine Dipslide with CLED / MacConkey Agar	10 Slides	£13.10
Z3YF10	Yeast / Fungi Slide	10 Slides	£13.10

10.2: Compact Dry™ Chromogenic Media Plates

Compact Dry™ plates provide a convenient test method for counting micro-organisms. The plates are supplied sterile and ready-to-use, and the media are dehydrated allowing for a long shelf life at room temperature. The incorporation of chromogenic agents in the media ensures that the plates are easy to interpret, making them an ideal alternative to the conventional culture plate method.

The plates can be used to test raw materials and finished products such as food, beverages, meat and cosmetics. Compact Dry™ is ideal for laboratory use and is portable, facilitating on-site sampling.

Code	Description	Size	Price
Z4-M530-OCF-T125	Coliform Isolation Transwab	125	POA
Z4-54061-0AQ-0040	Compact Dry AQ	40	POA
Z4-54061-0AQ-0240	Compact Dry AQ	240	POA
Z4-54061-0AQ-1400	Compact Dry AQ	1400	POA
Z4-54053-OCF-0040	Compact Dry CF	40	POA
Z4-54053-OCF-0240	Compact Dry CF	240	POA
Z4-54053-OCF-1400	Compact Dry CF	1400	POA
Z4-54065-CFL-0040	Compact Dry CF-L	40	POA
Z4-54065-CFL-0240	Compact Dry CF-L	240	POA
Z4-54052-0EC-0040	Compact Dry EC	40	POA
Z4-54052-0EC-0240	Compact Dry EC	240	POA
Z4-54052-0EC-1400	Compact Dry EC	1400	POA
Z4-54064-ECO-0040	Compact Dry ECO	40	POA
Z4-54064-ECO-0240	Compact Dry ECO	240	POA
Z4-54064-ECO-1400	Compact Dry ECO	1400	POA
Z4-54055-ETB-0040	Compact Dry ETB	40	POA
Z4-54055-ETB-0240	Compact Dry ETB	240	POA
Z4-54055-ETB-1400	Compact Dry ETB	1400	POA
Z4-54056-ETC-0040	Compact Dry ETC	40	POA
Z4-54056-ETC-0240	Compact Dry ETC	240	POA
Z4-54056-ETC-1400	Compact Dry ETC	1400	POA
Z4-54067-OLM-0040	Compact Dry LM	40	POA
Z4-54067-OLM-0240	Compact Dry LM	240	POA
Z4-54067-OLM-1400	Compact Dry LM	1400	POA
Z4-54060-OLS-0040	Compact Dry LS	40	POA
Z4-54060-OLS-0240	Compact Dry LS	240	POA
Z4-54060-OLS-1400	Compact Dry LS	1400	POA
Z4-54062-OPA-0040	Compact Dry PA	40	POA
Z4-54062-OPA-0240	Compact Dry PA	240	POA
Z4-54062-OPA-1400	Compact Dry PA	1400	POA
Z4-54058-OSL-0040	Compact Dry SL	40	POA

Z4-54058-OSL-0240	Compact Dry SL	240	POA
Z4-54058-OSL-1400	Compact Dry SL	1400	POA
Z4-54051-OTC-0040	Compact Dry TC	40	POA
Z4-54051-OTC-0240	Compact Dry TC	240	POA
Z4-54051-OTC-1400	Compact Dry TC	1400	POA
Z4-54069-TCR-0040	Compact Dry TCR	40	POA
Z4-54069-TCR-0240	Compact Dry TCR	240	POA
Z4-54069-TCR-1400	Compact Dry TCR	1400	POA
Z4-06749-0VP-0040	Compact Dry VP	40	POA
Z4-06749-0VP-0240	Compact Dry VP	240	POA
Z4-54057-XSA-0040	Compact Dry X-SA	40	POA
Z4-54057-XSA-0240	Compact Dry X-SA	240	POA
Z4-54057-XSA-1400	Compact Dry X-SA	1400	POA
Z4-54068-0BC-0040	Compact Dry XBC (BC)	40	POA
Z4-54068-0BC-0240	Compact Dry XBC (BC)	240	POA
Z4-54068-0BC-1400	Compact Dry XBC (BC)	1400	POA
Z4-54054-0YM-0040	Compact Dry YM	40	POA
Z4-54054-0YM-0240	Compact Dry YM	240	POA
Z4-54054-0YM-1400	Compact Dry YM	1400	POA
Z4-54063-YMR-0040	Compact Dry YMR	40	POA
Z4-54063-YMR-0240	Compact Dry YMR	240	POA
Z4-54063-YMR-1400	Compact Dry YMR	1400	POA
Z4-M570-0LS-T125	Listeria Isolation Transwabs	125	POA
Z4-M572-0SL-T125	Salmonella Transwab	125	POA
Z4-450004-BPW-0500	SWAB Buffer Peptone Water	500	POA
Z4-450003-LTE-0500	SWAB Letheen Broth	500	POA
Z4-450001-NRS-0500	SWAB Neutralising Rinse Solution	500	POA
Z4-450002-PBS-0500	SWAB Phosphate Buffered Saline	500	POA

11. Contract Manufacturing

TCS Biosciences Ltd is best known as a manufacturer and distributor of laboratory reagents and test kits. During our 58 year history we have developed skills, processes and procedures that make us the ideal contract manufacturing partner of in vitro diagnostics kits and kit components.

Please [contact us](#) to discuss your requirements.

12. Selectrol® Qualitative Micro-organisms

Selectrol® Micro-organisms

Selectrol® is a fully traceable and cost effective range of first generation micro-organisms which have predictable biochemical reactions, making it ideal for a variety of quality control and testing applications.

- **Quality control of culture media, staining reactions, biochemical profiling.**
- **Determination of antibiotic concentrations in blood, serum or CSF samples.**
- **Antibiotic susceptibility testing controls, whether by disc diffusion or serial dilution.**

Selectrol® is a first generation derivative of original stock cultures obtained exclusively from the National Collection of Type Cultures (NCTC®) or National Collection of Pathogenic Fungi (NCPF®). Where appropriate other international strain designations, such as the ATCC®, are listed for reference purposes only.

Selectrol® strains are presented as water-soluble freeze-dried discs with most strains being available in packs of 10 or 25 discs. Selectrol® is versatile, and can be inoculated directly onto solid media or dissolved in an appropriate broth.

Certificates of Analysis are available to download from our website: www.tcsbiosciences.co.uk.

To ensure you have the most recent Selectrol® listing, please contact our [Customer Service](#) team.

Selectrol® discs are manufactured under license from UK Health Security Agency.

NCTC® and NCPF® are trademarks of UK Health Security Agency.

ATCC® strains are listed for reference only.

ATCC® is a registered trademark of the American Type Culture Collection.

Code	Description	Size	WDCM	Price
MM25-10	<i>Acinetobacter baumannii</i> NCTC® 12156 / ATCC® 19606	10 discs		£38.10
MM94-10	<i>Aspergillus brasiliensis</i> NCPF® 2275 / ATCC® 16404	10 discs	00053	£59.10
MM21-10	<i>Bacillus cereus</i> NCTC® 10320 / ATCC® 9634	10 discs	00001	£38.10
MM86-10	<i>Bacillus cereus</i> NCTC® 7464 / ATCC® 10876	10 discs		£38.10

MM86-25	<i>Bacillus cereus</i> NCTC® 7464 / ATCC® 10876	25 discs		£59.10
MM29-10	<i>Bacillus subtilis subsp spizizenii</i> NCTC® 10400 / ATCC® 6633	10 discs	00003	£38.10
MM29-25	<i>Bacillus subtilis subsp spizizenii</i> NCTC® 10400 / ATCC® 6633	25 discs	00003	£59.10
MM44-10	<i>Bacteroides fragilis</i> NCTC® 9343 / ATCC® 25285	10 discs		£59.10
MM70-10	<i>Burkholderia cepacia</i> NCTC® 10661 / ATCC® 17759	10 discs		£38.10
MM36-10	<i>Campylobacter jejuni</i> NCTC® 11351 / ATCC® 33560	10 discs		£59.10
MM82-10	<i>Campylobacter jejuni</i> NCTC® 11322 / ATCC® 29428	10 discs	00156	£59.10
MM42-10	<i>Candida albicans</i> NCPF® 3179 / ATCC® 10231	10 discs	00054	£38.10
MM42-25	<i>Candida albicans</i> NCPF® 3179 / ATCC® 10231	25 discs	00054	£59.10
MM28-10	<i>Candida albicans</i> NCPF® 3255 / ATCC® 2091	10 discs	00055	£38.10
MM28-25	<i>Candida albicans</i> NCPF® 3255 / ATCC® 2091	25 discs	00055	£59.10
MM39-10	<i>Candida parapsilosis</i> NCPF® 3104	10 discs		£38.10
MM79-10	<i>Candida tropicalis</i> NCPF® 3111	10 discs		£38.10
MM49-10	<i>Candidozyma auris</i> NCPF® 8977 (formerly <i>Candida auris</i>)	10 discs		£59.10
MM27-10	<i>Citrobacter freundii</i> NCTC® 9750 / ATCC® 8090	10 discs		£38.10
MM45-10	<i>Clostridium perfringens</i> NCTC® 8237 / ATCC® 13124	10 discs	00007	£59.10
MM31-10	<i>Clostridium sporogenes</i> NCTC® 532 / ATCC® 19404	10 discs	00008	£59.10
MM01-10	<i>Enterobacter cloacae</i> NCTC® 13380 / ATCC® 23355	10 discs	00082	£38.10
MM51-10	<i>Enterobacter cloacae</i> NCTC® 13406	10 discs		£38.10
MM18-10	<i>Enterococcus faecalis</i> NCTC® 12697 / ATCC® 29212	10 discs	00087	£38.10
MM18-25	<i>Enterococcus faecalis</i> NCTC® 12697 / ATCC® 29212	25 discs	00087	£59.10
MM52-10	<i>Enterococcus faecalis</i> NCTC® 13379 / ATCC® 51299	10 discs	00085	£38.10

MM17-10	<i>Enterococcus faecalis</i> NCTC [®] 775 / ATCC [®] 19433	10 discs	00009	£38.10
MM17-25	<i>Enterococcus faecalis</i> NCTC [®] 775 / ATCC [®] 19433	25 discs	00009	£59.10
MM23-10	<i>Enterococcus faecium</i> NCTC [®] 7171 / ATCC [®] 19434	10 discs	00010	£38.10
MM35-10	<i>Enterococcus hirae</i> NCTC [®] 13383 / ATCC [®] 10541	10 discs	00011	£38.10
MM57-10	<i>Escherichia coli</i> (CRE) NCTC [®] 13476	10 discs		£38.10
MM34-10	<i>Escherichia coli</i> (mcr-1) NCTC [®] 13846	10 discs		£38.10
MM33-10	<i>Escherichia coli</i> NCTC [®] 10418 / ATCC [®] 10536	10 discs		£38.10
MM33-25	<i>Escherichia coli</i> NCTC [®] 10418 / ATCC [®] 10536	25 discs		£59.10
MM63-10	<i>Escherichia coli</i> NCTC [®] 11560	10 discs		£38.10
MM24-10	<i>Escherichia coli</i> NCTC [®] 11954 / ATCC [®] 35218	10 discs		£38.10
MM24-25	<i>Escherichia coli</i> NCTC [®] 11954 / ATCC [®] 35218	25 discs		£59.10
MM02-10	<i>Escherichia coli</i> NCTC [®] 12241 / ATCC [®] 25922	10 discs	00013	£38.10
MM02-25	<i>Escherichia coli</i> NCTC [®] 12241 / ATCC [®] 25922	25 discs	00013	£59.10
MM38-10	<i>Escherichia coli</i> NCTC [®] 12923 / ATCC [®] 8739	10 discs	00012	£38.10
MM38-25	<i>Escherichia coli</i> NCTC [®] 12923 / ATCC [®] 8739	25 discs	00012	£59.10
MM75-10	<i>Escherichia coli</i> NCTC [®] 9001 / ATCC [®] 11775	10 discs	00090	£38.10
MM93-10	<i>Escherichia coli</i> O157 non-toxigenic NCTC [®] 12900 / ATCC [®] 700728	10 discs	00014	£38.10
MM37-10	<i>Haemophilus influenzae</i> NCTC [®] 12975 / ATCC [®] 49766	10 discs		£59.10
MM98-10	<i>Haemophilus influenzae</i> NCTC [®] 11931	10 discs		£59.10
MM81-10	<i>Haemophilus influenzae</i> NCTC [®] 12699 / ATCC [®] 49247	10 discs		£59.10
MM100-10	<i>Haemophilus influenzae</i> NCTC [®] 8468 / ATCC [®] 9334	10 discs		£59.10
MM26-10	<i>Klebsiella aerogenes</i> NCTC [®] 10006 / ATCC [®] 13048	10 discs	00175	£38.10

MM26-25	<i>Klebsiella aerogenes</i> NCTC [®] 10006 / ATCC [®] 13048	25 discs	00175	£59.10
MM58-10	<i>Klebsiella pneumoniae (CRE)</i> NCTC [®] 13438	10 discs		£38.10
MM55-10	<i>Klebsiella pneumoniae (CRE)</i> NCTC [®] 13440	10 discs		£38.10
MM59-10	<i>Klebsiella pneumoniae (CRE)</i> NCTC [®] 13442	10 discs		£38.10
MM56-10	<i>Klebsiella pneumoniae (CRE)</i> NCTC [®] 13443	10 discs		£38.10
MM83-10	<i>Klebsiella pneumoniae</i> NCTC [®] 13368 / ATCC [®] 700603	10 discs		£38.10
MM04-10	<i>Klebsiella pneumoniae</i> NCTC [®] 9633 / ATCC [®] 13883	10 discs	00097	£38.10
MM04-25	<i>Klebsiella pneumoniae</i> NCTC [®] 9633 / ATCC [®] 13883	25 discs	00097	£59.10
MM76-10	<i>Lactobacillus brevis</i> NCTC [®] 13386 / ATCC [®] 8287	10 discs		£59.10
MM99-10	<i>Legionella anisa</i> NCTC [®] 11974 / ATCC [®] 35292	10 discs	00106	£59.10
MM08-10	<i>Legionella pneumophila serogroup 1</i> NCTC [®] 11192 / ATCC [®] 33152	10 discs	00107	£59.10
MM92-10	<i>Listeria innocua</i> NCTC [®] 11288 / ATCC [®] 33090	10 discs	00017	£38.10
MM66-10	<i>Listeria ivanovii</i> NCTC [®] 11007 / ATCC [®] 19119	10 discs	00018	£38.10
MM47-10	<i>Listeria monocytogenes</i> NCTC [®] 10527 / ATCC [®] 13932	10 discs	00021	£38.10
MM87-10	<i>Listeria monocytogenes</i> NCTC [®] 11994	10 discs	00019	£38.10
MM77-10	<i>Listeria monocytogenes</i> NCTC [®] 13372 ATCC [®] 7644	10 discs		£38.10
MM48-10	<i>Listeria monocytogenes</i> NCTC [®] 7973 / ATCC [®] 35152	10 discs	00109	£38.10
MM48-25	<i>Listeria monocytogenes</i> NCTC [®] 7973 / ATCC [®] 35152	25 discs	00109	£59.10
MM67-10	<i>Mycobacterium smegmatis</i> NCTC [®] 8159 / ATCC [®] 19420	10 discs		£59.10
MM96-5	<i>Neisseria gonorrhoeae</i> NCTC [®] 12700 / ATCC [®] 49226	5 discs		£59.10
MM05-5	<i>Neisseria gonorrhoeae</i> NCTC [®] 8375 / ATCC [®] 19424	5 discs		£59.10
MM03-10	<i>Pichia kudriavzevii</i> NCPF [®] 3100	10 discs		£38.10

MM68-10	<i>Proteus mirabilis</i> NCTC® 10975	10 discs		£59.10
MM43-10	<i>Proteus mirabilis</i> NCTC® 13376 / ATCC® 14153	10 discs		£38.10
MM09-10	<i>Proteus vulgaris</i> NCTC® 4175 / ATCC® 13315	10 discs		£38.10
MM09-25	<i>Proteus vulgaris</i> NCTC® 4175 / ATCC® 13315	25 discs		£59.10
MM65-10	<i>Pseudomonas aeruginosa</i> NCTC® 10662 / ATCC® 25668	10 discs	00114	£38.10
MM10-10	<i>Pseudomonas aeruginosa</i> NCTC® 12903 / ATCC® 27853	10 discs	00025	£38.10
MM10-25	<i>Pseudomonas aeruginosa</i> NCTC® 12903 / ATCC® 27853	25 discs	00025	£59.10
MM41-10	<i>Pseudomonas aeruginosa</i> NCTC® 13359 / ATCC® 15442	10 discs		£38.10
MM40-10	<i>Pseudomonas paraeruginosa</i> NCTC® 12924 / ATCC® 9027	10 discs	00026	£38.10
MM40-25	<i>Pseudomonas paraeruginosa</i> NCTC® 12924 / ATCC® 9027	25 discs	00026	£59.10
MM88-10	<i>Raoultella planticola</i> NCTC® 9528 formerly <i>Klebsiella aerogenes</i>	10 discs		£38.10
MM97-10	<i>Rhodococcus hoagii</i> NCTC® 1621 / ATCC® 6939	10 discs	00028	£38.10
MM50-10	<i>Saccharomyces cerevisiae</i> NCTC® 10716 / ATCC® 9763	10 discs	00058	£38.10
MM73-10	<i>Saccharomyces cerevisiae</i> NCPF® 3178	10 discs		£38.10
MM62-10	<i>Salmonella Enteritidis</i> NCTC® 12694 / ATCC® 13076	10 discs	00030	£38.10
MM84-10	<i>Salmonella Nottingham</i> NCTC® 7832	10 discs		£59.10
MM89-10	<i>Salmonella Poona</i> NCTC® 4840	10 discs		£38.10
MM11-10	<i>Salmonella Typhimurium</i> NCTC® 12023/ ATCC® 14028	10 discs	00031	£38.10
MM11-25	<i>Salmonella Typhimurium</i> NCTC® 12023/ ATCC® 14028	25 discs	00031	£59.10
MM12-10	<i>Serratia marcescens</i> NCTC® 13382 / ATCC® 8100	10 discs		£59.10
MM07-10	<i>Shigella sonnei</i> NCTC® 12984 / ATCC® 29930	10 discs	00127	£38.10
MM46-10	<i>Staphylococcus aureus</i> NCTC® 10788 / ATCC® 6538	10 discs	00032	£38.10

MM46-25	<i>Staphylococcus aureus</i> NCTC [®] 10788 / ATCC [®] 6538	25 discs	00032	£59.10
MM64-10	<i>Staphylococcus aureus</i> NCTC [®] 12493	10 discs	00212	£38.10
MM14-10	<i>Staphylococcus aureus</i> NCTC [®] 12973 / ATCC [®] 29213	10 discs	00131	£38.10
MM14-25	<i>Staphylococcus aureus</i> NCTC [®] 12973 / ATCC [®] 29213	25 discs	00131	£59.10
MM13-10	<i>Staphylococcus aureus</i> NCTC [®] 12981 / ATCC [®] 25923	10 discs	00034	£38.10
MM13-25	<i>Staphylococcus aureus</i> NCTC [®] 12981 / ATCC [®] 25923	25 discs	00034	£59.10
MM91-10	<i>Staphylococcus aureus</i> NCTC [®] 13373 / ATCC [®] 43300	10 discs	00211	£38.10
MM85-10	<i>Staphylococcus aureus</i> NCTC [®] 6571 / ATCC [®] 9144	10 discs	00035	£38.10
MM30-10	<i>Staphylococcus aureus</i> NCTC [®] 7447 / ATCC [®] 6538P	10 discs	00033	£38.10
MM15-10	<i>Staphylococcus epidermidis</i> NCTC [®] 13360 / ATCC [®] 12228	10 discs	00036	£38.10
MM15-25	<i>Staphylococcus epidermidis</i> NCTC [®] 13360 / ATCC [®] 12228	25 discs	00036	£59.10
MM16-10	<i>Streptococcus agalactiae</i> NCTC [®] 8181 / ATCC [®] 13813	10 discs		£38.10
MM60-10	<i>Streptococcus dysgalactiae subsp. equisimilis</i> NCTC [®] 13762	10 discs		£38.10
MM19-10	<i>Streptococcus pneumoniae</i> NCTC [®] 12695 / ATCC [®] 6303	10 discs		£38.10
MM19-25	<i>Streptococcus pneumoniae</i> NCTC [®] 12695 / ATCC [®] 6303	25 discs		£59.10
MM95-10	<i>Streptococcus pneumoniae</i> NCTC [®] 12977 / ATCC [®] 49619	10 discs		£38.10
MM20-10	<i>Streptococcus pyogenes</i> NCTC [®] 12696 / ATCC [®] 19615	10 discs		£38.10
MM20-25	<i>Streptococcus pyogenes</i> NCTC [®] 12696 / ATCC [®] 19615	25 discs		£59.10
MM06-10	<i>Vibrio parahaemolyticus</i> NCTC [®] 10885	10 discs	00185	£59.10
MM80-10	<i>Yersinia enterocolitica</i> NCTC [®] 12982 / ATCC [®] 9610	10 discs	00038	£38.10
MM80-25	<i>Yersinia enterocolitica</i> NCTC [®] 12982 / ATCC [®] 9610	25 discs	00038	£59.10

13. Diagnostic Kits

Cellabs is a leading specialist in the development and manufacture of immunodiagnostic kits for infectious and tropical diseases. Products are developed with stability and ease of use in mind.

At their facility in Sydney, Australia, Cellabs manufactures a range of microscope-based immunofluorescent assays (IFA) and enzyme immunoassays (EIA) for large scale laboratory testing.

13.1: Diagnostic Kits

Code	Description	Size	Price
Z1KR2-50T	<i>Crypto/Giardia Cel</i>	50 Tests	£710.40
Z1KR2-PCS	<i>Crypto/Giardia Cel PCS</i>	Single Slide	£100.90
Z1KR1-50T	<i>Crypto Cel</i>	50 Tests	£603.70
Z1KR1-PCS	<i>Crypto Cel PCS</i>	Single Slide	£94.10
Z1KG1-50T	<i>Giardia Cel</i>	50 Tests	£580.00
Z1KG1-PCS	<i>Giardia Cel PCS</i>	Single Slide	£94.10
Z1KG2	<i>Giardia Celisa</i>	96 Test	POA
Z1KC1-50T	<i>Chlamydia Cel</i>	50 Tests	£457.50
Z1KC2-50T	<i>Chlamydia Cel LPS</i>	50 Tests	£457.50
Z1KC2-PCS	<i>Chlamydia Cel LPS PCS</i>	Single Slide	£125.30
Z1KC1-PCS	<i>Chlamydia Cel PCS</i>	Single Slide	£125.30
Z1KC3-50T	<i>Chlamydia Cel Pn</i>	50 Tests	£603.60
Z1KC3-PCS	<i>Chlamydia Cel Pn PCS</i>	Single Slide	£164.70
Z1KE1	<i>Entamoeba histolytica Celisa (Path)</i>	96 Test	POA
Z1KM2	<i>Malaria Ag Celisa</i>	192 Test	£921.10
Z1KM2BP	<i>Malaria Ag Celisa Bulk Pack</i>	960 Test	£2,963.00
Z1KMC3	<i>Pan Malaria Antibody Celisa</i>	192 Test	£921.10
Z1KP2-50T	<i>Pneumo Cel Indirect</i>	50 Tests	£569.30
Z1KT2	<i>T. cruzi IgG Celisa</i>	96 Test	POA
Z1KT3	<i>Toxocara IgG Celisa</i>	192 Test	£921.10

13.2: Gonorrhoea and Streptococcus

Gonochek II is a rapid confirmation test for *Neisseria* species and provides differential diagnostics of: *Neisseria gonorrhoea*, *Neisseria meningitidis*, *Neisseria lactamica*, *Moraxella (Branhamella) catarrhalis*.

The kit has a simple step-by-step protocol and provides easy to interpret chromogenic results. Sensitivity >95% on all *Neisseria* species, specificity >90% on all *Neisseria* species.

Code	Description	Size	Price
Z813-003-25	Gonochek® II	25 Tests	£188.30
Z813-106-50	Oxidase Swabzymes	50 Swabs	POA
Z813-050-00	Strep-A-Check Kit	100 Tests	£180.00
Z813-051-00	Strep-A-Check Kit (Strips)	100 Strips	£130.50

14. Dyes and Stains

StainHD

TCS offers a comprehensive range of wet and dry dyes and stains. The range of wet stains includes ready-to-use as well as concentrated formats to suit specific needs. 500ml bottles are presented with pouring caps for ease of use. Stain packs are also available.

Dyes and Stains Ordering

A number of catalogue items (items requiring the addition of dry ice, dry dyes and stains and chemicals) are categorised as "Dangerous Goods" and are assigned UN numbers in line with ADR, IMDG and IATA regulations.

These products require special shipping arrangements and are subject to additional next day service freight surcharges (in addition to our standard freight charges).

We do have alternative Dangerous Goods road freight options shipping from TCS weekly.

For details of this service please contact [customer services](#) for a freight quotation.

14.1: Wet Dyes and Stains

StainHD

TCS Biosciences Ltd offers a comprehensive range of over 150 wet and dry dyes and stains. Our range includes ready-to-use kits as well as concentrated formats to suit specific needs. 500ml bottles are presented with pouring caps for ease of use. Our dry dyes and stains are available in pack sizes of 10g, 25g and 100g.

Code	Description	Size	Price
HS100-1L	Acridine Orange in Acetate Buffer	1L	£25.00
HS100-250	Acridine Orange in Acetate Buffer	250ml	POA
HS116-500	Alcian Blue 8GX (1% w/v in 3% acetic acid)	500ml	£47.40
HK004	Ammoniacal silver stain	100ml	POA
HS200-500	Amyloid Stain (Puchtler) Congo Red Stock Solution	500ml	£44.60
HS145-500	Auramine Decolouriser (Lempert)	500ml	POA
HK005	Brilliant Crystal Scarlet 6R	100ml	POA
HS160-1L	Carbol Fuchsin (Gram)	1L	£7.40
HS160-500	Carbol Fuchsin (Gram)	500ml	£5.30
HS180-500	Carbol Fuchsin (Kinyoun)	500ml	£15.50

HS170-1L	Carbol Fuchsin (Ziehl-Neelsen)	1L	£30.30
HS170-500	Carbol Fuchsin (Ziehl-Neelsen)	500ml	£22.00
HS230-1L	Crystal Violet (Gram)	1L	£17.90
HS230-500	Crystal Violet (Gram)	500ml	POA
HS232-1L	Crystal Violet Oxalate (Gram)	1L	£14.70
HS305X	Diluent for Gram's Iodine working solution	240ml	POA
HS235-500	Elastin Stain (Miller)	500ml	£34.50
HS260-500	Eosin Y (1% alcoholic)	500ml	POA
HS250-1L	Eosin Y (1% aqueous)	1L	£13.10
HS265-500	Feulgen Stain (Schiff)	500ml	£13.40
HS270-100	Field's Stain (solution A)	100ml	£3.30
HS270-1L	Field's Stain (Solution A)	1L	£19.40
HS270-500	Field's Stain (Solution A)	500ml	£12.30
HS275-100	Field's Stain (Solution B)	100ml	£3.10
HS275-1L	Field's Stain (Solution B)	1L	£19.40
HS275-500	Field's Stain (solution B)	500ml	£11.70
HS295-500	Giemsa Stain (modified)	500ml	£15.90
HS300-1L	Giemsa Stain Rapid	1L	£40.90
HS300-250	Giemsa Stain Rapid	250ml	£10.30
HS310-500	Gram's Decolouriser	500ml	POA
HS305-1L	Gram's Iodine	1L	£28.40
HS305-500	Gram's Iodine	500ml	£10.00
HS305Y	Gram's Iodine concentrate	10ml	POA
HS315-1L	Haemalum Mayer	1L	£18.80
HS330-500	Haematoxylin Ehrlich	500ml	£17.00
HS345-1L	Haematoxylin Gill 3	1L	£19.50
HS356-1L	Haematoxylin Harris (with acetic acid)	1 Litre	£19.30
HS351-1L	Haematoxylin Harris Modified (no acetic acid)	1L	£22.20
HS380-1L	Haematoxylin Weigert Solution B	1L	£32.80
HK010	Hydrochloric acid	100ml	POA
HK011	Hydrochloric acid (<5%)	250ml	POA
HK012	Iron Alum	100ml	POA
HS400-500	Leishman Stain	500ml	£17.10
HS425-1L	Lugol's Iodine	1L	£27.60
HS425-500	Lugol's Iodine	500ml	£23.40
HS435-250	Malachite Green (ZN)	250ml	POA
HS435-500	Malachite Green (ZN)	500ml	£34.00
HK014	Martius yellow alcoholic	100ml	POA
HS445-250	May Grunwald Stain (modified)	250ml	£2.50

HS445-500	May Grunwald Stain (modified)	500ml	£11.50
HS515-500	Methylene Blue Polychrome (Loeffler)	500ml	£18.40
HS555-250	Neutral Red (1% aqueous)	250ml	£7.30
HS612-500	Orcein Solution (Shikata)	500ml	£119.20
HK015	Oxalic acid 1%	250ml	POA
HK017	Oxalic acid 5%	100ml	POA
HS630-500	Papanicolaou Stain - EA50	500ml	£19.10
HS650-250	Perl Iron Stain 1 & 2 (twin pack)	250ml	£27.20
HK018	Phosphomolybdic acid	250ml	POA
HK019	Phosphotungstic acid	100ml	POA
HK020	Phosphotungstic acid solution	250ml	POA
HS660-500	Picric Acid (sat. alcoholic)	500ml	£44.60
HS655-500	Picric Acid (sat. aqueous)	500ml	£18.90
HK021	Potassium ferrocyanide	100ml	POA
HK021B	Potassium ferrocyanide	250ml	POA
HK022	Potassium permanganate	100ml	POA
HK024	Potassium permanganate 0.5%	250ml	POA
HS137-500	Potassium Permanganate for Fluorescent TB Stain (0.1% w/v aqueous)	500ml	£12.40
HS705A-500	Rapid Romanowsky Stain Solution A	500ml	£15.70
HS705B-500	Rapid Romanowsky Stain Solution B	500ml	£15.70
HS705C-500	Rapid Romanowsky Stain Solution C	500ml	£15.70
HS720-1L	Safranin (1% aqueous)	1L	£20.20
HS720-500	Safranin (1% aqueous)	500ml	POA
HS725-200	Safranin (Gram) conc. 200ml makes 1 Litre	200ml	£12.20
HK026	Sodium chloride solution 1% alcoholic	500ml	POA
HK030	Sodium hydroxide 1%	25ml	POA
HK032	Sodium Thiosulphate	100ml	POA
HK028	Soluble aniline blue	100ml	POA
HS780-500	Van Gieson Stain	500ml	£23.00
HS787-500	ZN Decolouriser	500ml	£26.30

14.2: Dry Dyes and Stains

StainHD

TCS Biosciences Ltd offers a comprehensive range of over 150 wet and dry dyes and stains. Our range includes ready-to-use kits as well as concentrated formats to suit specific needs. 500ml bottles are presented with pouring caps for ease of use. Our dry dyes and stains are available in pack sizes of 10g, 25g and 100g.

Code	Description	Size	Price
HD1040-25	Alcian Blue 8GX	25g	£122.00
HD1140-25	Azur I	25g	POA

14.3: Stain Packs

StainHD

TCS Biosciences Ltd offers an extensive range of economical stain packs for all clinical disciplines. Many of the stain pack components are available separately in our Wet Dyes and Stains listing.

Code	Description	Size	Price
HS202	Amyloid Stain Kit - Puchtler	Kit	£30.00
HS805-MG	Cold ZN - Kinyoun Stain Pack counterstain: Malachite Green	3x250ml	£68.40
HS805-AMB	Cold ZN - Kinyoun Stain Pack: Methylene Blue (alcoholic)	3x250ml	£57.20
HS237	Elastin Stain Kit - Miller/Van Gieson	4x250ml	£60.10
HS800-F	Gram's Stain Pack (Crystal Violet Oxalate) counterstain: Carbol Fuchsin	4x250ml	£52.40
HS800-NR	Gram's Stain Pack (Crystal Violet Oxalate) counterstain: Neutral Red	4x250ml	£52.80
HS800-S	Gram's Stain Pack (Crystal Violet Oxalate) counterstain: Safranin	4x250ml	POA
HS802-F	Gram's Stain Pack (Crystal Violet) counterstain: Carbol Fuchsin	4x250ml	POA
HS802-NR	Gram's Stain Pack (Crystal Violet) counterstain: Neutral Red	4x250ml	POA
HS802-S	Gram's Stain Pack (Crystal Violet) counterstain: Safranin	4x250ml	£53.30
HS652	Iron Stain Kit - Perl	3x100ml	£13.20
HS443	MSB Stain Pack - Fibrin	5x100ml	£48.00
HS462	Periodic Acid Schiff (PAS) Stain Kit	3x100ml	POA
HS705	Rapid Romanowsky Stain Pack	3x500ml	£43.50
HS303	Reticulin Stain Pack	6x100ml	POA
HS820	TB Pack Fluorescent Auramine-Rhodamine-Phenol	3x250ml	£46.10
HS773-AB	Trichrome Stain (Masson) Pack Aniline Blue	4x250ml	£168.30
HS773-LG	Trichrome Stain (Masson) Pack Light Green	4x250ml	£138.10
HS810-MB	Ziehl-Neelsen Stain Pack counterstain: Methylene Blue	3x250ml	£51.00
HS810-AMB	Ziehl-Neelsen Stain Pack counterstain: Methylene Blue (alcoholic)	3x250ml	POA

14.4: Stain Concentrates

StainHD

Stain concentrates must be diluted with distilled or deionised water before use, refer to the product label for correct dilution.

Stain concentrates are convenient, saving you valuable storage space.

Code	Description	Size	Price
HS125-250	Aniline Blue	250ml	POA
HS145-250	Auramine Decolouriser	250ml	POA
HS135-250	Auramine Rhodamine Phenol	250ml	POA
HS160-250	Carbol Fuchsin	250ml	POA
HS170-250	Carbol Fuchsin	250ml	POA
HS180-250	Carbol Fuchsin	250ml	POA
HS220-100	Crystal Violet 10 x conc.	each, to make 1l stain	£4.70
HS220-1L	Crystal Violet 10 x conc.	1L	£36.60
HS230-250	Crystal Violet Gram	250ml	POA
HS232-250	Crystal Violet Oxalate	250ml	POA
HS235-250	Elastin Stain (Miller)	250ml	POA
HS265-100	Feulgen Stain	100ml	POA
HS310-250	Grams Decolouriser	250ml	POA
HS315-100	Haemalum Mayer	100ml	POA
HS345-100	Haematoxylin Gill 3	100ml	POA
HS405-250	Light Green (Masson)	250ml	£43.80
HS500-250	Methylene Blue	250ml	POA
HS515-250	Methylene Blue	250ml	POA
HS555-100	Neutral Red	100ml	POA
HS565-1L	Neutral Red (Jensen) 10 x conc.	1L	£46.40
HC6405-100	Periodic Acid (1% aqueous)	100ml	POA
HS670-250	Ponceau Fuchsin (Masson)	250ml	POA
HS137-250	Potassium Permanganate	250ml	POA
HS720-250	Safranin O	250ml	POA
HS762-1L	Thiazine Red 10 x conc.	1L	POA
HS780-250	Van Gieson Stain	250ml	POA
HS787-250	ZN Decolouriser	250ml	POA

15. Serum and Plasma

15.1: Animal Serum and Plasma

Animal Serum and Plasma Sterile serum is widely used in cell culture, microbiology and in the preparation of diagnostic kits.

Donor animals are screened for viruses and pathogens prior to being introduced into the donor groups. Processing is carried out in accordance with our strict operating procedures. Certificates of analysis are available upon request.

We are aware that some customers do not require Animal Serum and Plasma which has been through the stringent control procedures described above.

Many of our customers use Animal Serum and Plasma for non-critical procedures or for research and development applications. We now offer a value for money range of alternative products.

Our Animal Serum and Plasma products are each sourced from an identified origin. These products carry limited documentation, including a certificate of conformity.

Please note: Orders will be shipped out on dry ice, standard charge will apply. If you do not wish to have your order sent on dry ice, please [contact](#) our Customer Service Team.

Donor Horse Serum - Serum Grade Options

To meet all your laboratory needs, depending on your application, we are pleased to offer 2 grades of our 0.1µm sterile filtered Donor Horse Serum. These are all manufactured in our Buckinghamshire facility, supported by the same production principles, traceability and our very high quality standards. All grades are supplied with a Certificate of Analysis. The differences between the grades are summarised below:

- Reagent grade: endotoxin <10 EU/ml
- Laboratory grade: endotoxin <50 EU/ml

Please [contact us](#) to discuss your requirement.

Code	Description	Size	Price
CSF02	Donor Bovine Serum, Gamma Irradiated New Zealand Origin	500ml	POA
CSF100	Donor Bovine Serum, Gamma Irradiated New Zealand Origin	1000ml	POA
CS0021	Donor Bovine Serum, Heat Inactivated New Zealand Origin	500ml	POA
DBS100	Donor Bovine Serum, New Zealand Origin	1000ml	POA
DBS500	Donor Bovine Serum, New Zealand Origin	500ml	POA
HA001	Donor Horse Serum, Defibrinated UK Origin	100ml	£14.30
HA002	Donor Horse Serum, Defibrinated UK Origin	500ml	£58.90

HA005	Donor Horse Serum, Heat Inactivated UK Origin	100ml	£15.60
HA006	Donor Horse Serum, Heat Inactivated UK Origin	500ml	£62.60
FBSIAE1000	Fetal Bovine Serum Gamma Irradiated, Australian Origin	1000ml	POA
FBSIAE500	Fetal Bovine Serum Gamma Irradiated, Australian Origin	500ml	POA
FBSIN1000	Fetal Bovine Serum Gamma Irradiated, New Zealand Origin	1000ml	POA
FBSIN500	Fetal Bovine Serum Gamma Irradiated, New Zealand Origin	500ml	POA
FBSIU1000	Fetal Bovine Serum Gamma Irradiated, US Origin	1000ml	POA
FBSIU500	Fetal Bovine Serum Gamma Irradiated, US Origin	500ml	POA
FBSAE1000	Fetal Bovine Serum, Australian Origin	1000ml	POA
FBSAE500	Fetal Bovine Serum, Australian Origin	500ml	POA
FBSN1000	Fetal Bovine Serum, New Zealand Origin	1000ml	POA
FBSN500	Fetal Bovine Serum, New Zealand Origin	500ml	POA
FBSU1000	Fetal Bovine Serum, US Origin	1000ml	POA
FBSU500	Fetal Bovine Serum, US Origin	500ml	POA
HS019	Horse Plasma, Citrated	500ml	POA
HS018	Horse Plasma, Heparinised	500ml	POA
CS004	Newborn Calf Serum, New Zealand Origin	500ml	POA

15.2: Bovine Serum Albumin

Bovine Serum Albumin is a large, stable, soluble, monomeric, globular protein which makes up about half of the total serum protein. Due to its binding and transporting properties, BSA acts primarily as a carrier protein for hormones, fatty acids, trace minerals, vitamins and iron. However, it also plays a role in stabilising extracellular fluid volume and maintaining osmotic balance, as well as binding harmful toxins and free radicals.

Its *in vitro* uses are diverse, ranging from pharmaceutical and medical applications to agriculture and chemical manufacture.

We also offer a batch reservation service. Please enquire for more details.

Code	Description	Size	Price
SAB905	Bovine Serum Albumin (Non Sterile)	5g	POA
SAB910	Bovine Serum Albumin (Non Sterile)	10g	POA
SAB925	Bovine Serum Albumin (Non Sterile)	25g	POA

15.3: Other Sera and Plasma

Code	Description	Size	Price
CP4X3	Coagulase Plasma (Rabbit) for S. aureus Identification	4x3ml	POA
G410	Goat Serum	100ml	POA
G502	Guinea Pig Serum	25ml	POA
G800	Mouse Serum	5ml	POA
G802	Mouse Serum, Sterile, 25ml	25ml	POA
H110	Rabbit Serum	100ml	POA
H200	Rat Serum	5ml	POA
H202	Rat Serum	25ml	POA
G710	Sheep Serum	100ml	POA
G750	Sheep Serum	500ml	POA

15.4: Human Serum and Plasma

All serum and plasma units have been screened and found non-reactive for Hepatitis B, HIV I, HIV II, HCV and Syphilis. We can also supply product that has been more extensively screened to current FDA standards.

We are also able to supply Stripped Serum; the price of this will vary depending on the parameters that need to be removed. We are able to offer disease state immune sera and plasma. Prices will depend on the type of antibody and titre.

When requesting samples, please note that there will be an admin fee of £7.50 per sample for serum and £4.00 for plasma. The administration fee will be credited when the reserve volume is purchased.

If you require more information, please [contact](#) our Customer Service team.

Please note: Orders will be shipped out on dry ice, standard charge will apply. If you do not wish to have your order sent on dry ice, please [contact](#) our Customer Service Team.

Code	Description	Size	Price
PR100-IDU-H2	Human Plasma Citrated Non Sterile Per L Non-Sterile, Individual Donor Unit, Citrated		POA
PR100-IDU-U1	Human Plasma Citrated Non Sterile Per L Non-Sterile, Individual Donor Unit, Citrated		POA
PR100-IDU-U2	Human Plasma Citrated Non Sterile Per L Non-Sterile, Individual Donor Unit, Citrated		POA
PR100-LH-IDU-U1	Human Plasma IDU in Li Heparin Per L Non-Sterile, Individual Donor Unit		POA
PR100-3.8-IDU-U1	Human Plasma in 3.8% citrate IDU - Per L		POA
PR100-3.8-IDU-U2	Human Plasma in 3.8% citrate IDU - Per L		POA
PR100-K2-PPL-U1	Human Plasma in K2 EDTA Per L Non-Sterile		POA
PR100-K2-PPL-U2	Human Plasma in K2 EDTA Per L Non-Sterile		POA
PR100-K2-100-U1	Human Plasma in K2 EDTA 100ml Non-Sterile		POA
PR100-K2-100-U2	Human Plasma in K2 EDTA 100ml Non-Sterile		POA
PR100-K2-500-U1	Human Plasma in K2 EDTA 500ml Non-Sterile		POA
PR100-K2-500-U2	Human Plasma in K2 EDTA 500ml Non-Sterile		POA
PR100-K2-IDU-U1	Human Plasma in K2 EDTA IDU Per L Non-Sterile, Individual Donor Unit		POA
PR100-K2-IDU-U2	Human Plasma in K2 EDTA IDU Per L Non-Sterile, Individual Donor Unit		POA

PR100-K3-100-U1	Human Plasma in K3 EDTA 100ml Non-Sterile		POA
PR100-K3-100-U2	Human Plasma in K3 EDTA 100ml Non-Sterile		POA
PR100-K3-IDU-U1	Human Plasma in K3 EDTA IDU Per L Non-Sterile, Individual Donor Unit		POA
PR100-K3-IDU-U2	Human Plasma in K3 EDTA IDU Per L Non-Sterile, Individual Donor Unit		POA
PR100-1L-H2	Human Plasma Mixed Pool 1L Non- Sterile, Citrated		POA
PR100-1L-U1	Human Plasma Mixed Pool 1L Non- Sterile, Citrated		POA
PR100-1L-U2	Human Plasma Mixed Pool 1L Non- Sterile, Citrated		POA
PS100-500-U2	Human Plasma Mixed Pool 500ml		POA
PR100-500-H2	Human Plasma Mixed Pool 500ml Non-Sterile, Citrated		POA
PR100-500-U1	Human Plasma Mixed Pool 500ml Non-Sterile, Citrated		POA
PR100-500-U2	Human Plasma Mixed Pool 500ml Non-Sterile, Citrated		POA
PS100-500-H2	Human Plasma Mixed Pool 500ml Sterile Filtered 0.2µm, Citrated		POA
PS100-500-U1	Human Plasma Mixed Pool 500ml Sterile Filtered 0.2µm, Citrated		POA
PS100-K3-500-H2	Human Plasma Mixed Pool in K3 EDTA 500mL Sterile Filtered 0.2µm		POA
PS100-K3-500-U1	Human Plasma Mixed Pool in K3 EDTA 500mL Sterile Filtered 0.2µm		POA
PS100-K3-500-U2	Human Plasma Mixed Pool in K3 EDTA 500mL Sterile Filtered 0.2µm		POA
PS100-K3-100-H2	Human Plasma Mixed Pool K3 EDTA Sterile Filtered 0.2µm		POA
PS100-K3-100-U1	Human Plasma Mixed Pool K3 EDTA Sterile Filtered 0.2µm		POA
PS100-K3-100-U2	Human Plasma Mixed Pool K3 EDTA Sterile Filtered 0.2µm		POA
PR100-PPL-H2	Human Plasma Mixed Pool Per L Non-Sterile, Citrated		POA
PR100-PPL-U1	Human Plasma Mixed Pool Per L Non-Sterile, Citrated		POA
PR100-PPL-U2	Human Plasma Mixed Pool Per L Non-Sterile, Citrated		POA
PR200-F-100-H2	Human Plasma Sexed Female 100ml Non-Sterile, Citrated		POA
PR200-F-100-U1	Human Plasma Sexed Female 100ml Non-Sterile, Citrated		POA
PR200-F-100-U2	Human Plasma Sexed Female 100ml Non-Sterile, Citrated		POA

PS200-F-100-U1	Human Plasma Sexed Female Pool 100ml Sterile Filtered 0.2µm, Citratated		POA
PS200-F-100-H2	Human Plasma Sexed Female Pool 100ml Sterile Filtered 0.2um, Citratated		POA
PS200-F-100-U2	Human Plasma Sexed Female Pool 100ml Sterile Filtered 0.2um, Citratated		POA
PR100-K3-500-U1	Human Plasma with K3 EDTA 500ml Non-Sterile		POA
PR100-K3-500-U2	Human Plasma with K3 EDTA 500ml Non-Sterile		POA
PR100-LH-100-U1	Human Plasma with Li Heparin 100ml Non-Sterile		POA
CR100-IDU-E1	Human Serum - IDU per L Non- Sterile, Individual Donor Unit, "off the clot"		POA
CR100-IDU-U1	Human Serum - IDU per L Non- Sterile, Individual Donor Unit, "off the clot"		POA
CR100-IDU-U2	Human Serum - IDU per L Non- Sterile, Individual Donor Unit, "off the clot"		POA
CR100-IDU-ZZ	Human Serum - IDU per L Non- Sterile, Individual Donor Unit, "off the clot"		POA
CS300-AB-100-E1	Human Serum Group AB 100ml Sterile Filtered 0.2µm, "off the clot"		POA
CS300-AB-100-U1	Human Serum Group AB 100ml Sterile Filtered 0.2µm, "off the clot"		POA
CS300-AB-100-U2	Human Serum Group AB 100ml Sterile Filtered 0.2µm, "off the clot"		POA
CS300-AB-100-ZZ	Human Serum Group AB 100ml Sterile Filtered 0.2µm, "off the clot"		POA
CS100-100-E1	Human Serum Mixed Pool 100ml Sterile Filtered 0.2µm, "off the clot"		POA
CS100-100-U1	Human Serum Mixed Pool 100ml Sterile Filtered 0.2µm, "off the clot"		POA
CS100-100-U2	Human Serum Mixed Pool 100ml Sterile Filtered 0.2µm, "off the clot"		POA
CS100-100-ZZ	Human Serum Mixed Pool 100ml Sterile Filtered 0.2µm, "off the clot"		POA
CR100-1L-E1	Human Serum Mixed Pool 1L Non- Sterile, "off the clot"		POA
CR100-1L-U1	Human Serum Mixed Pool 1L Non- Sterile, "off the clot"		POA
CR100-1L-U2	Human Serum Mixed Pool 1L Non- Sterile, "off the clot"		POA
CR100-1L-ZZ	Human Serum Mixed Pool 1L Non- Sterile, "off the clot"		POA

CR100-500-E1	Human Serum Mixed Pool 500ml Non-Sterile, "off the clot"		POA
CR100-500-U1	Human Serum Mixed Pool 500ml Non-Sterile, "off the clot"		POA
CR100-500-U2	Human Serum Mixed Pool 500ml Non-Sterile, "off the clot"		POA
CR100-500-ZZ	Human Serum Mixed Pool 500ml Non-Sterile, "off the clot"		POA
CS100-500-E1	Human Serum Mixed Pool 500ml Sterile Filtered 0.2µm, "off the clot"		POA
CS100-500-U1	Human Serum Mixed Pool 500ml Sterile Filtered 0.2µm, "off the clot"		POA
CS100-500-U2	Human Serum Mixed Pool 500ml Sterile Filtered 0.2µm, "off the clot"		POA
CS100-500-ZZ	Human Serum Mixed Pool 500ml Sterile Filtered 0.2µm, "off the clot"		POA
CR100-PPL-E1	Human Serum Mixed Pool per L Non- Sterile, "off the clot"		POA
CR100-PPL-U1	Human Serum Mixed Pool per L Non- Sterile, "off the clot"		POA
CR100-PPL-U2	Human Serum Mixed Pool per L Non- Sterile, "off the clot"		POA
CR100-PPL-ZZ	Human Serum Mixed Pool per L Non- Sterile, "off the clot"		POA
CS200-F-100-E1	Human Serum Pool Female 100ml Sterile Filtered 0.2µm, "off the clot"		POA
CS200-F-100-U1	Human Serum Pool Female 100ml Sterile Filtered 0.2µm, "off the clot"		POA
CS200-F-100-U2	Human Serum Pool Female 100ml Sterile Filtered 0.2µm, "off the clot"		POA
CS200-F-100-ZZ	Human Serum Pool Female 100ml Sterile Filtered 0.2µm, "off the clot"		POA

16. Environmental Monitoring and Sample Collection

Revolutionary products to make microbiology sample collection and processing more effective and reliable.

16.1: Adapter and Poles

Code	Description	Size	Price
Z-EXT-POLE 8-FT	8 ft extension pole for use with PUR BLU and EZ Reach	Pole	POA
Z-EZ-ADAPT	Pole Adapter for EZ Reach	Pole	POA
Z-BLU-ADAPT-STR	Pole Adapter, PUR for Blue Swab	Pole	POA

16.2: Carcass Sampling Kits

Code	Description	Size	Price
Z-CS-25BFD	Carcass Sampling 25mls Butterfields Buffer (36 Bottles per case)	Kit	POA
Z-CSKIT-BFD	Carcass Sampling 25mls Butterfields Buffer (36 Bottles per case)	Kit	POA
Z-GP-BLUE-PE	Glove Packs, Blue PE (200 pack) 100 pair	Kit	POA
Z-TP-10X10-PLAIN	Polyethylene Template, 10x10 (case of 50)	Kit	POA
Z-TP-5X10-PLAIN	Polyethylene Template, 5x10 (case of 50)	Kit	POA

16.3: Dividable Grid Containers

Code	Description	Size	Price
Z-DG-CONTAINER	Blue polypropylene container (16 1/2" x 10 7/8" x 8") 1 each	Kit	POA
Z-DG-DIVIDER-LONG	Long (Lenth wise) Dividers. 6 per pack	Kit	POA
Z-DG-DIVIDER-SHORT	Short (Width Wise) Dividers. 6 per pack	Kit	POA

16.4: EZ Reach 4X and 8X Sponge Samplers

Code	Description	Size	Price
Z-EZ4-40DSSM-PUR	EZ Reach 4x Sampler w/40mls Double strength Skim Milk Broth. 50/Case	Kit	POA
Z-EZ4-40HC-PUR	EZ Reach 4x Sampler w/40mls HICap Broth. 50/Case	Kit	POA
Z-EZ8-80HC-PUR+	EZ Reach 8x Sampler w/80mls HICap Broth. 50/Case	Kit	POA

16.5: EZ Reach Spilt Sampler (60cs)

Code	Description	Size	Price
Z-EZ-SP-20BPW-PUR+	EZ Reach Split Sampler w/20 mls Buffered Peptone Water	Kit	POA
Z-EZ-SP-20DE-PUR+	EZ Reach Split Sampler w/20 mls DE Broth	Kit	POA
Z-EZ-SP-20HC-PUR	EZ Reach Split Sampler w/20 mls HiCap Broth	Kit	POA
Z-EZ-SP-20LET-PUR	EZ Reach Split Sampler w/20 mls Letheen Broth	Kit	POA
Z-EZ-SP-20NB-PUR+	EZ Reach Split Sampler w/20 mls Neutralizing Buffer	Kit	POA
Z-EZ-SP-DRY-PUR	EZ Reach Split Sampler/ Dry Polyurethane Sponges 60/Case	Kit	POA

16.6: EZ Reach Sponge (100cs)

Code	Description	Size	Price
Z-EZ18FR-10BPW-PUR	EZ Reach 10ml Buffered Peptone Water, Polyurethane, 18 oz bag	Kit	POA
Z-EZ-DRY-PUR	EZ Reach Dry Poly Urethane	Kit	POA
Z-EZ-10BPW-PUR	EZ Reach, 10ml Buffered Pep, 24 Oz bag	Kit	POA
Z-EZ-10DE-PUR	EZ Reach, 10ml D/E Neutralizing Broth, Polyurethane, 24 oz bag	Kit	POA
Z-EZ-10HC-PUR	EZ Reach, 10ml HiCap Neutralizing Broth, Polyurethane, 24 oz bag	100 per case	POA
Z-EZ-10HC-PUR-G	EZ Reach, 10ml HiCap Neutralizing Broth, w glovesPolyurethane, 24 oz bag	Kit	POA
Z-EZ18FR-10LET-PUR	EZ Reach, 10ml Letheen, Polyurethane, 18 oz bag	Kit	POA
Z-EZ-10LET-PUR	EZ Reach, 10ml Letheen, Polyurethane, 24 oz bag	Kit	POA
Z-EZ18FR-10NB-PUR	EZ Reach, 10ml Neutralizing Buffer, Polyurethane, 18 oz bag	Kit	POA
Z-EZ18FR-10NB-PUR-G	EZ Reach, 10ml Neutralizing Buffer, Polyurethane, 18 oz bag gloved	Kit	POA
Z-EZ-10NB-PUR	EZ Reach, 10ml Neutralizing Buffer, Polyurethane, 24 oz bag	Kit	POA
Z-EZ-10NB-PUR-G	EZ Reach, 10ml Neutralizing Buffer, w Glove Polyurethane, 24 oz bag	Kit	POA
Z-EZ18FR-10HC-PUR	EZ Reach, 10ml, HiCap Neutralizing Broth Polyurethane, 18 oz bag	Kit	POA
Z-EZ18FR-10HC-PUR-G	EZ Reach, 10ml, HiCap Neutralizing Broth w glovesPolyurethane, 18 oz bag	Kit	POA

Z-EZ-20NB-PUR	EZ Reach, 20ml Neutralizing Buffer 24oz Bag	Kit	POA
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16.7: FlipRight Vials (100 cs)

Code	Description	Size	Price
Z-FRV-10BPW	FlipRight 10ml Buffered Peptone Water	Kit	POA
Z-FRV-10DE +	FlipRight 10ml D/E Neutralizing Broth	Kit	POA
Z-FRV-10HC	FlipRight 10ml HiCap Neutralizing Broth	Kit	POA
Z-FRV-9BPW	FlipRight 9ml Buffered Peptone Water	Kit	POA
Z-FRV-9DE +	FlipRight 9ml D/E Neutralizing Broth	Kit	POA
Z-FRV-9HC	FlipRight 9ml HiCap Neutralizing Broth	Kit	POA
Z-FRV-10LET	FlipRight Vial, 10ml Letheen Broth	Kit	POA
Z-FRV-9BFD	FlipRight Vial, 9 ml Butterfields Phosphate Buffer	Kit	POA
Z-FRV-9LET	FlipRight Vial, 9ml Letheen Broth	Kit	POA
Z-FRV-9MRD +	FlipRight Vial, 9ml Maximum Recovery Diluent	Kit	POA
Z-FRV-9PW+	FlipRight Vial, 9ml Peptone Water	Kit	POA

16.8: Nova Lock Dilution Bottles (60 cs)

Code	Description	Size	Price
Z-NLD-90PW	Nova Lock Dilution Bottles - 90 ml 0.1 % Peptone Water	Kit	POA
Z-NLD-90BPW	Nova Lock Dilution Bottles - 90 ml Buffered peptone Water	Kit	POA
Z-NLD-90BFD	Nova Lock Dilution Bottles - 90ml Butterfield's Phosphate Buffer	Kit	POA
Z-NLD-99PW	Nova Lock Dilution Bottles - 99 ml 0.1 % Peptone Water	Kit	POA
Z-NLD-99BPW	Nova Lock Dilution Bottles - 99 ml Buffered peptone Water	Kit	POA
Z-NLD-99BFD	Nova Lock Dilution Bottles - 99 ml Butterfield's Phosphate Buffer	Kit	POA
Z-NLD-99PHB+	Nova Lock Dilution Bottles - 99 ml Phosphate Buffer	Kit	POA

16.9: Poultry Booties and Pull String Swabs

Code	Description	Size	Price
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Z-BOOT-DSSM-2B	Boot Swab with Double Strength Skim Milk (DSSM) 100 Per case 2 Booties	Kit	POA
Z-PS-10DSSM-GAUZ+	Pull String Sampler, 4"x4" gauze pad, 5'. 10ML DSSM 24oz Bag 100Case	Kit	POA
Z-PS-10DSSM-GAUZ-G+	Pull String Sampler, 4"x4" gauze pad, 5'. 10ML DSSM 24oz Bag 100Case	Kit	POA
Z-PS-10DSSM-PUR-G+	Pull String Sampler, Poly Sponge, 5' 10ML DSSM 24oz Bag 100Case	Kit	POA
Z-PS-10DSSM-PUR+	Pull String Sampler, Poly Sponge, 5'. 10ML DSSM 24oz Bag 100Case	Kit	POA

16.10: PUR-Blue DUO Swab Samplers (100 cs)

Code	Description	Size	Price
Z-DUO-HC9BPW	DUO with 1.5 ml HiCap Broth, 9ml Buffered Peptone Water	Kit	POA
Z-DUO-HC9DFB	DUO with 1.5 ml HiCap Neutralizing Broth, 9ml Demi Fraser Broth	Kit	POA

16.11: PUR-Blue Swab (100 cs)

Code	Description	Size	Price
Z-BLU-10DE	PUR Blue Swab 10 ml of DE Neutralizing Broth	Kit	POA
Z-BLU-1LET-S +	PUR Blue Swab, 1 ml Letheen Broth (Small Swab Tip)	Kit	POA
Z-BLU-1HC-S	PUR Blue Swab, 1 ml of HiCap Broth (Small Swab Tip)	Kit	POA
Z-BLU-DE-P	PUR Blue Swab, 1.5 ml D/E Neutralizing Broth	Kit	POA
Z-BLU-HC-P	PUR Blue Swab, Hi-Cap Broth	Kit	POA
Z-BLU-LET-P +	PUR-Blue Swab, 1 ml Letheen Broth	Kit	POA
Z-BLU-10BPW+	PUR-Blue Swab, 10 ml Buffered Peptone Water	Kit	POA
Z-BLU-10LET	PUR-Blue Swab, 10 ml Letheen Broth	Kit	POA
Z-BLU-10NB	PUR-Blue Swab, 10 ml Neutralizing Buffer	Kit	POA
Z-BLU-10HC	PUR-Blue Swab, 10ml HiCap Neutralizing Broth	Kit	POA
Z-BLU-4HC+	PUR-Blue Swab, 4 ml HiCap Neutralizing Broth	Kit	POA
Z-BLU-5HC	PUR-Blue Swab, 5 ml HiCap Neutralizing Broth	Kit	POA
Z-BLU-5LET	PUR-Blue Swab, 5 ml Letheen Broth	Kit	POA

Z-BLU-5NB	PUR-Blue Swab, 5 ml Neutralizing Buffer	Kit	POA
Z-BLU-4NB	PUR-Blue Swab, 4 ml Neutralizing Buffer	Kit	POA

16.12: SampleRight HD Sponges (100 cs)

Code	Description	Size	Price
Z-SR-18-DRY-HDPUR	SampleRight HD Poly Sponge w Glove. / 10mL HiCap Broth in 18oz Bag	Kit	POA
Z-SR18-10HC-HDPUR	SampleRight HD Poly Sponge w Glove. / 10mL HiCap Broth in 18oz Bag	Kit	POA
Z-SR18-10HC-HDPUR-G	SampleRight HD Poly Sponge w Glove. / 10mL HiCap Broth in 18oz Bag	Kit	POA
Z-SR18-20BPW-HDPUR-G	SampleRight HD Poly Sponge w Glove. / 10mL HiCap Broth in 18oz Bag	Kit	POA
Z-SR18-20BPW-HDPUR-G	SampleRight HD Poly Sponge w Glove. / 10mL HiCap Broth in 18oz Bag	Kit	POA
Z-SR18-25BPW-HDPUR	SampleRight HD Poly Sponge w Glove. / 10mL HiCap Broth in 18oz Bag	Kit	POA
Z-SR-10HC-HDPUR-G	SampleRight, HD Poly Sponge w/ Glove. 10ml HiCap Broth, 24 oz bag	Kit	POA
Z-SR-10LET-HDPUR-G	SampleRight, HD Poly Sponge w/ Glove. 10ml Letheen Broth, 24 oz bag	Kit	POA
Z-SR-10NB-HDPUR-G	SampleRight, HD Poly Sponge w/ Glove. 10ml Neutralizing Buffer, 24 oz bag	Kit	POA

16.13: SampleRight Sponges (100 cs)

Code	Description	Size	Price
Z-SR-10BPW-G	SampleRight, 10ml Buffered Peptone Water with gloves, 24 oz bag	Kit	POA
Z-SR18-10BPW-G	SampleRight, 10ml Buffered Peptone Water, 18 oz bag	Kit	POA
Z-SR-10LET	SampleRight, 10ml Letheen, 24 oz bag	Kit	POA
Z-SR-10LET-G	SampleRight, 10ml Letheen, with gloves 24 oz bag	Kit	POA
Z-SR-10NB	SampleRight, 10ml Neutralizing Buffer, 24 oz bag	Kit	POA
Z-SR-10NB-G	SampleRight, 10ml Neutralizing Buffer, 24 oz bag	Kit	POA

Z-SR18-10BPW	SampleRight, 10ml Neutralizing Buffer, 24 oz bag	Kit	POA
Z-SR18-DRY	SampleRight, Dry, 18 oz bag	Kit	POA
Z-SR18-DRY-G	SampleRight, Dry, with gloves, 18 oz bag	Kit	POA
Z-SR-DRY-G	SampleRight, Dry, with gloves, 24 oz bag	Kit	POA

16.14: Veriswab Tubes (100 cs)

Code	Description	Size	Price
Z-VS-10BPW	Veriswab, 10ml Buffered Peptone Water	Kit	POA
Z-VS-10HC	Veriswab, 10ml HiCap Broth	Kit	POA
Z-VS-10LET	Veriswab, 10ml Letheen Broth	Kit	POA
Z-VS-10NB	Veriswab, 10ml Neutralizing Buffer	Kit	POA
Z-VS-1HC	Veriswab, 1ml HiCap Broth	Kit	POA
Z-VS-1LET	Veriswab, 1ml Letheen Broth	Kit	POA
Z-VS-4LET	Veriswab, 4ml Letheen Broth	Kit	POA
Z-VS-4NB	Veriswab, 4ml Neutralizing Buffer	Kit	POA

TCS Biosciences Ltd

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Terms and Conditions

1. Contracts

1.1 Contracts with TCS Biosciences Limited ('the Company') shall be for the supply of the Company's Products ('the Products') and shall be subject to these Terms and Conditions.

1.2 The catalogue, price list, estimate or quotation of the Company comprises an invitation to treat which is open for a period of twenty eight (28) days from the date thereof unless otherwise specified in writing **PROVIDED THAT** the Company has not previously withdrawn it. Any order issued by the Customer is subject to acceptance by the Company and a contract will only be formed when the Company has accepted the Customer's offer. Any offer made by the Company orally must be confirmed in writing by the Customer.

1.3 All orders are accepted under these Terms and Conditions alone and supersede all previous agreements and exclude any purported terms and conditions in the Customer's order.

1.4 No servant or agent of the Company has authority to make any representation or give any warranty in relation to the Products other than in the documents enclosed with the Company's quotation or acknowledgement of order.

2. Quotations and Prices

2.1 Customers will be invoiced by the Company at the Company's prices ruling at the date of despatch of the Products.

2.2 Prices quoted in the Company's quotation or price lists:

a) are those then current and shall not be binding on the Company.
b) do not include Value Added Tax, or any other tax, levy, duty or surcharge whether imposed before or after making the Contract.

2.3 Packing and postage or carriage and a small handling charge may be charged extra at the Company's discretion.

3. Orders

3.1 All Orders by the Customer:

a) must be numbered.
b) must identify the Products by reference to a catalogue number and a description of the Products.
c) must specify the address to which the Products are to be delivered ('the place of delivery').
d) must specify the address to which the invoice is to be sent.

3.2 Orders made by telephone must be confirmed in writing by the Customer within 48 hours on order forms marked 'Confirmation of telephone order'.

3.3 By agreement between the Company and the Customer orders for the Products may be established for delivery by instalments.

3.4 By agreement between the Company and the Customer orders for the Products may be held on reserve for an agreed period ('Reserve Holding Period')

4. Variations

No variation of any Contract shall be valid and binding unless the terms thereof have been agreed in writing by both the Company and the Customer.

5. Catalogues, etc

Any description of the Products appearing in the Company's catalogues, brochures, and other publications is believed to be correct and up-to-date but is not warranted by the Company. The Company accepts no responsibility for the accuracy of any description provided from information from a third party supplier.

6. Specification and material

6.1 All Products will be supplied to the Company's specification current at the date of commencement of manufacture of the Products.

6.2 Products will be made from the Company's standard materials; but, if for any reason such materials are unavailable, the Company reserves the right to substitute the most suitable alternative that can be obtained at the time of manufacture.

6.3 The Company will replace any Product which prove to be defective provided that claims are made by the Customer within ten days of the date of delivery. There will be no replacement of Products which have been processed or interfered with other than by the Company or which have not been stored according to the Company's instructions.

7. Limitations of Liability

7.1 To the maximum extent permitted by applicable law, the Company excludes all guarantees, representations, warranties or conditions (whether express or implied, statutory or otherwise). Customer's sole remedy is application of condition 6.3.

7.2 To the maximum extent permitted by applicable law, the Company shall not be liable for any loss of profits or consequential loss or indirect loss suffered by the Customer (howsoever arising). Non-exhaustive illustrations of consequential or indirect loss would be:

7.2.1 loss of revenue;

7.2.2 loss of Contracts;

7.2.3 damage to property of the Customer, or anyone else;

7.2.4 personal injury to the Customer or anyone else (except so far as such injury is attributable to the Company's negligence);

7.2.5 site labour costs including removal, replacement or making good or delay or disturbance to other works.

7.3 To the maximum extent permitted by applicable law, the Company's total liability for any one claim or for the total of all claims arising from any one act or default of the Company (whether arising from the Company's negligence or otherwise) shall not exceed the Contract price.

7.4 The Customer shall keep the Company indemnified against all actions, costs, claims and liability arising from fault or unsuitable instructions given by the Customer or from allegations of breach of Intellectual Property rights of a third party arising out of the Customer's instructions.

7.5 In the case of Products not manufactured by the Company, the Company gives no representation, warranty or condition whatsoever that the sale or use of the Products will not infringe patent, copyright or other Intellectual Property rights of any person, firm or Company.

8. Products to the Customer's Specification

Where the Company supplies Products to a Customer in accordance with the Customer's specification, any addition or alteration shall be subject to an extra charge and the Customer shall indemnify the Company against all claims, damages, penalties, costs and expenses to which it may become liable through the infringement of the rights of third parties.

9. Delivery

9.1 Delivery will be deemed to have been effected when the Products are delivered to the Customer unless agreed otherwise by the Company in writing.

9.2 Time of delivery is not of the essence.

9.3 The Company shall not be liable for any loss, whatsoever and howsoever arising, caused by its non-delivery.

9.4 When the Company conveys the Products the Customer shall be responsible for providing proper unloading facilities (including adequate plant and labour) and storage facilities.

10. Inspection/Shortages/Defects

10.1 The Customer is under a duty wherever possible to inspect the Products on delivery or on collection as the case may be.

10.2 Where the products cannot be examined, the carrier's note or such other note as appropriate shall be marked 'not examined'.

10.3 The Company shall be under no liability for any defects or shortages that would be apparent on careful inspection if the terms of Clauses 10.1 and 10.2 are not complied with, and, in any event, will be under no liability if a written complaint is not delivered to the Company within seven (7) days of delivery detailing the alleged defect or shortage. Damage in transit by a carrier must also be notified within the time imposed by its contract.

10.4 Subject to Clause 10.3, all Products manufactured and supplied by the Company are guaranteed against faults in workmanship or materials which have been notified to it within three (3) months of delivery and will be repaired and replaced by it free of charge as soon as reasonably practicable **PROVIDED THAT** no liability arising out of any of the following circumstances shall be accepted by the Company.

10.4.1 work carried out by others to the Products;

10.4.2 Customer's neglect or misuse;

10.4.3 unsuitability of the Products for use with other materials unless the Customer has previously notified the Company in writing of the specific materials with which the Products are to be used;

10.4.4 failure to give reasonable opportunity for the Company to inspect, repair or replace Products.

10.5 Returns of either defective or non-defective Products must be cleared with the Company before their return. In the case of defective Products returned with prior approval for the Company to replace, these must be returned to the Company delivery paid. In the case of non-defective Products approved for return, these must be returned to the Company works delivery paid and, in addition, the Company reserves the right to charge fifteen per cent (15%) handling charge.

11. Non-acceptance of delivery

If the Customer fails to take or accept delivery of the Products in accordance with Condition 9 hereof the price shall nevertheless be paid in accordance with Condition 14 as if delivery had taken place. The Company shall be entitled to charge the Customer for storage, insurance and other expenses reasonably incurred or suffered by the Company as a result of such failure but the Company shall not be

bound to take any steps for the custody or care of the Products or be liable for any loss or damage suffered by the Customer arising therefrom.

12. Delay

Any times quoted for delivery are to be treated as estimated only and will not involve the Company in any liability for failure to deliver the Products within such time. Where for any reason delivery of the Products to the Customer is delayed the Customer shall take delivery of the Products sold within 3 days of being requested by the Company.

13. Force majeure

The Company shall not be liable for failure to comply with the terms of the Contract owing to Acts of God, force majeure, riots and civil commotion, war, disease, strike, lock-out, labour disputes, fire or any other cause whatsoever beyond the Company's control.

14. Payment

14.1 Except where a credit account has been opened for the Customer by the Company, payment shall be made in as soon as the Products have been delivered or against a pro-forma invoice.

14.2 Credit account invoices are due for payment 30 days from the end of the month following that in which the invoice is dated. All invoices are strictly net.

14.3 Payment of credit account invoices by their due date is a condition precedent to the fulfilment of the Company's further obligations under the Contract in respect of which such default has been made or any other Contract then subsisting between the Company and the Customer.

14.4 If the Customer fails to make any payment due to the Company by the due date for payment, then, without limiting Customer's other remedies, Customer shall pay interest on the overdue amount at the rate of 4% per annum above Barclay's Bank's base lending rate from time to time. Such interest shall accrue on a daily basis from the due date until the date of actual payment of the overdue amount, whether before or after judgement. Customer shall pay the interest together with the overdue amount.

15. Risk and Passing of Title

15.1 Products supplied by the Company shall be at the Customers risk immediately on delivery in accordance with Clause 9 and the Customer should therefore be insured accordingly. Where stock is subject to prepayment and storage agreement, risk will pass immediately to the customer as soon as payment is received.

15.2 Property in the Products supplied hereunder will pass to the Customer when:

15.2.1 the Products, the subject of this Contract, have been paid in full; and

15.2.2 all other Products, the subject of any other Contract between the Company and the Customer which at the time of payment of the full price of the Products sold under this Contract, have been delivered to the Customer but not paid for in full, have been paid for in full as well.

15.3 Until full payment has been received by the Company, the Customer shall hold the Products in a fiduciary capacity for the Company in a manner which enables them to be identified as the Products of the Company and the Customer shall immediately return the Products to the Company should its authorised representative so request. All the normal incidents associated with a fiduciary relationship shall apply.

15.4 The Customer's rights to possession of the Products shall cease if he does anything or fails to do anything which would entitle an Administrator or Administrative Receiver to take possession of any assets or would entitle any person to present a Petition for winding-up.

15.5 The Customer grants the Company irrevocable licence to enter at any time any vehicles or premises owned or occupied by the Customer or in its possession for the purpose of repossessing and removing any such Products the property in which has remained in the Company under Clause 15 hereof. The Company shall not be responsible for and the Customer will indemnify the Company against liability in respect of damages caused by such vehicles or premises in such re-possession and removal being damage it was not reasonably practicable to avoid.

15.6 Notwithstanding Clause 15.3 hereof the Customer shall be permitted to sell the Products to third parties in the normal course of business. In this respect the Customer shall act in the capacity of a Commission Agent and the proceeds of any such sale shall be held in trust for the Company in a manner which enables the Customer as Commission Agent a commission depending upon the surplus which the Commission Agent can obtain over and above the sum stipulated under the original Contract of supply which will satisfy the Company.

15.7 If the Product the property of the Company are admixed with products the property of any person other than the Customer the product thereof shall be deemed to be owned in common with that other person.

16. Instalments and Reservations

16.1 Where the Products are delivered by instalments in accordance with Condition 3.3:

a) each delivery shall be deemed to constitute a separate enforceable Contract and

b) no delivery may be changed or cancelled unless the Customer has given the Company 14 days written notice prior to the date of despatch.

16.2 Where the Products are held on reserve in accordance with condition 3.4, the Customer agrees to purchase the balance of products within the applicable Reserve Holding Period.

17. Cancellation

Contracts and special orders may not be cancelled by the Customer without the written consent of the Company, in the event of the Products being returned to the Company as a result of the cancellation of a Contract, the Company reserves the right to make a cancellation charge calculated by the Company based on the costs of the Company which cannot be recovered together with a handling or restocking charge.

18. Insolvency

The Company shall have the right to terminate the Contract forthwith by notice in writing where the Customer becomes insolvent or bankrupt or makes any arrangement with its creditors or suffers a receiver to be appointed or being a body corporate enters into liquidation (other than in connection with a reconstruction or amalgamation) in any of which the cases the Company shall have no further obligation hereunder and the price for all the Products delivered or despatched from the Company's premises shall become immediately due and payable.

19. Protection of Intellectual Property

19.1 The trademarks, trade names, know-how, copyrights, design rights, goodwill, patents and all other proprietary rights ('the Intellectual Property') arising out of or existing in or upon the Products or the documentation referred to in Clause 5 are the property of the Company or are licensed to the Company.

19.2 The Customer shall not cause or permit anything which may damage or endanger the Intellectual Property of the Company or the Company's Title to it, nor assist nor allow others to do so and shall maintain as confidential both during the Contract as well as at all times thereafter all information relating to the Company, the Products and the Intellectual Property.

19.3 The Customer shall notify the Company of any suspected infringement of the Intellectual Property.

19.4 The Customer shall not tamper with any markings or name plates or other indications of the source or origin of the Products which may be placed by the Company upon its Products.

19.5 The Intellectual Property is licensed on a limited non-exclusive basis to the Customer to use for its own purposes but such Licence shall automatically be revoked in the event that any of the circumstances mentioned in Clause 18 apply and in the event that payment is not made in accordance with Clause 14.

20. Notice

Any notice to be served on either of the parties shall be in writing and sent to the last known address of the recipient or to such other address as the recipient may designate by notice given in accordance with the provisions of this Clause. Any such notice may be delivered personally or by first class pre-paid letter, telex, or facsimile transmission and shall be deemed to have been effectively served if by hand when delivered, if by first class post forty-eight hours (48) after posting and if by telex or facsimile transmission when despatched.

21. Non-assignment

The Customer shall not assign his rights or liabilities under a Contract made subject to these Terms and Conditions.

22. Waiver

Failure by the Company to endorse a term of the Contract shall not prevent the subsequent enforcement of that or any other term of the Contract.

23. **Validity** If any provision or part of these Terms and Conditions is held to be invalid, amendments to these Terms and Conditions may be made by the addition or deletion of words or as appropriate to remove the invalid part or provision but otherwise retain the provision and the other provisions of these Terms and Conditions to the maximum extent permissible under applicable law.

24. Proper Law

Contracts made with the Company shall be governed by and construed according to the laws of England and the Customer agrees to submit to the jurisdiction of English Courts.