

Vitl

LIFE SCIENCE SOLUTIONS



www.vitlproducts.com



Introduction

Vitl Life Science Solutions is a global pioneer in the design, development and manufacture of high-quality laboratory and analytical instrumentation.

From the world-leading Microplate Heat Sealer, VTS, to their collection of programmable mixers, shakers and vortexers, Vitl products are suitable for a breadth of applications such as ELISA, DNA isolation, enzymatic reactions and sample incubation.

The growing product portfolio is highly regarded for its durability, performance, and unique ergonomics and is available through a global network of distributors and trusted OEM partners.

With an unrivalled level of sample care, usability and repeatability, Vitl products are used in laboratories world-wide including, the United States Centers for Disease Control and Prevention (CDC) and the New York State Department of Health.

As a member of the ITL Group, Vitl benefits from 40 years' experience and expertise of its parent company, and with facilities in the UK, USA and China it enables Vitl to offer clients world-wide support.



Catalogue number: V902001

Variable Temperature Heat Sealer - VTS

The VTS Microplate heat sealer offers maximum flexibility without compromising on sealing quality. Stable heat sealing performance ensures one-time sealing, preventing sample loss through evaporation and cross contamination between wells.

Features:

- Adjustable sealing temperature and time
- 125 – 200°C seal temperature
- Unique ergonomic design
- Stable heat sealing performance to ensure one-time sealing
- Audible indication when sealing complete
- Fast warm-up time
- Comprehensive range of heat sealing foils and films available



The VTS requires at least ONE adaptor plate - Adaptors sold separately

V902003 VTS Adaptor Plate for skirted plates

V902004 VTS Adaptor Plate for 96-well unskirted/semi skirted plates

V902005 VTS Adaptor Plate for deep-well plates

Catalogue number: V903001

MicroTS Heat Sealer

The Micro TS is a compact, fixed temperature manual heat sealer which is both convenient and easy to use. Weighing only 4kg its lightweight and easy to handle. The Micro TS is ideal for use in low to medium throughput laboratories where space is limited but speed and reliability are paramount.

Features:

- Lightweight (only 4kg)
- Fixed 170°C seal temperature
- Ergonomic design
- Compact unit with a small footprint
- Fast warm-up time
- LED status lights
- Comprehensive range of heat sealing foils and films available



MicroTS requires at least ONE adapter plate - Adapters sold separately

V903004 MTS Adaptor Plate - 96-well semi skirted/ unskirted plates

V903003 MTS Adaptor Plate - skirted plates

V903005 MTS Adaptor Plate - deep-well plates

Vitl Life Science Solutions' range of Heat Sealers are designed to deliver consistent and effective sealing for a variety of microplates during PCR or sample storage.

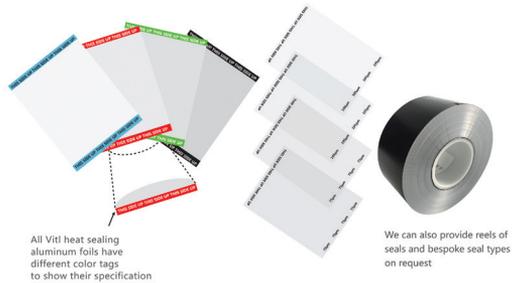
Choose from our wide range of heat sealing foils and films including clear, peelable, pierceable and solvent resistant seals.

For technical specifications please visit: www.vitlproducts.com

Catalogue number: See page 17

Heat Sealing Foil & Film

Vitl Life Science Solutions offer a comprehensive range of foil and film microplate heat seals, designed for sealing various plate formats. They provide optimum protection against sample loss through evaporation and are ideal for long-term storage. For best results use Vitl heat seals in conjunction with the VTS and MicroTS heat sealers.



Features:

- Colour coded for easy type identification
- 125mm x 80mm sheets
- All seals are available in packs of 100 sheets
- Bespoke seal types & seal reels available

Product	Peelable	Pierceable	Temp Range	Polyethylene Plate (PP)	Polypropylene Plate (PE)	Polystyrene Plate (PS)	COC?	Colour Code	Catalogue Number
20µm Heat Sealing Foil	✗	✓	-20 - +120°C	✓	✓	✓	✗	Green	V901002
38µm Heat Sealing Foil	✓	✓	-20 - +110°C	✓	✓	✓	✗	Blue	V901003
68µm Heat Sealing Foil	✓	✗	-80 - +110°C	✓	✓	✓	✓	Yellow	V901008
70µm Heat Sealing Foil	✓	✓	-80 - +80°C	✓	✓	✓	✓	Orange	V901010
70µm Heat Sealing Foil	✓	✗	-80 - +80°C	✓	✓	✗	✗	Red	V901001
75µm Clear Sealing Film	✗	✓	-80 - +80°C	✓	✓	✓	✓	75µm	V901005
85µm Heat Sealing Foil	✓	✗	-200 - +110°C	✓	✗	✗	✗	Black	V901004
105µm Clear Sealing Film	✓	✗	-80 - +180°C	✓	✓	✓	✓	105µm	V901006

V901020 Foil Weight (sold separately)

Introducing the
latest member of
the Vitl family

LU-mini

Turn the
page to find
out more



Introducing our **brand** **new** product for 2018

Vitl Life Science Solutions introduce the Lu-mini – the next generation of low-cost OEM benchtop luminometer. A robust, single-tube, benchtop luminometer optimised for the measurement of biological and chemical luminescence reactions.

LU-mini



Catalogue number: V301001

Features:

- Accepts 10 -15mm round tubes/vials & 10mm square cuvettes
- Fast reading time with optional integration phase
- Versatile protocol selection including single/dual point, peak detect and kinetic data collection
- Storage capacity for up to 1000 test results
- USB connectivity for sample/results data transfer and configuration via included PC App
- Intuitive touchscreen user interface



Want to discuss OEM opportunities? The flexible user interface allows OEM partners to utilise their own reagents, disposables and protocols, and the Lu-mini software can be fully customised to meet your requirements.



For technical specifications please visit: www.vitlproducts.com



#therevolutionwillbevitlised

For more information
please visit

www.vitlproducts.com/products/lu-mini



LU-mini

Catalogue number: V101001

co-mix

Vitl Life Science Solutions Co-Mix has the unique feature of simultaneous, independently controlled microplate mixing and tube vortexing in one compact design. It is fully programmable, allowing you to create and store your own unique mixing profiles with variable ramp rates, mixing times and speeds. The Co-Mix offers excellent mixing performance to ensure data accuracy and higher repeatability.



Features:

- 200 – 3000 rpm mixing;
700 – 3500 rpm vortexing
- 1.5mm mixing orbit
- Create and store user-defined mixing profiles
- Effortless change between operating modes
- Intuitive touch-screen
- Innovative plate-holding mechanism reduces risk of lid wetting
- Simultaneous microplate mixing and tube vortexing function



The Co-Mix comes with a full set of adapters as standard

Vitl Life Science Solutions heating and mixing range focuses on highly controlled and accurate sample preparation.

Catalogue number: V102001

Ther-mix

It is no longer necessary to stand over your samples switching different mixing speeds and temperatures in your protocol, Viti Life Science Solutions Ther-Mix heated mixer can do that all for you. When combined with the intelligent Heated Modules, the Ther-Mix allows you to accurately mix and heat samples with ease. Create and store your own mixing profiles with multiple mixing and heating steps through an easy to use touch-screen interface.



Features:

- 200 - 3000 rpm mixing
- Interchangeable Heated Modules support various sample tubes (see page 14)
- 1.5mm mixing orbit
- Capability to create and store your own mixing profiles
- Intuitive touch-screen
- Unique compact design



Catalogue number: V103001

Flexi-therm

Introducing the new generation of dry block heaters. The Flexi-Therm by Viti Life Science Solutions, coupled with Viti intelligent Heated Modules, provide highly accurate, repeatable sample heating for a range of laboratory consumables including microplates and various tube formats. Ideal for sample preparation and incubation.



Features:

- Interchangeable Heated Modules support various sample tubes (see page 14)
- Accurate sample temperature display
- Simple user display and touch-control interface
- Small and compact



For technical specifications please visit: www.vitiproducts.com

Catalogue number: Go to vitlproducts.com for more info

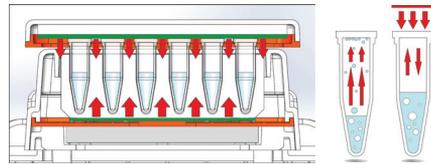
Heated Module

Traditional incubation methods such as hot blocks and water baths are notoriously inaccurate and provide poor sample care. Vitl Life Science Solutions range of interchangeable intelligent Heated Modules are pre-calibrated with a built-in heated lid to provide direct consumable contact – a more efficient and accurate way of heating compared to heating the air around the samples.



Features:

- Temperature accuracy $+0.1^{\circ}\text{C}$
- Temperature uniformity $+0.5^{\circ}\text{C}/+1\%$ of the target temperature
- Independent control of sample & lid temperature to reduce condensation and evaporation
- Pre-calibrated to ensure highly accurate temperature control
- Modules designed for use with either the Ther-Mix or Flexi-Therm
- Self-limited mixing speed and temperature for sample care and user safety



Vitl Life Science Solutions can design bespoke Heated Modules based upon your requirements.

	Ther-Mix	Flexi-Therm	Co-Mix
			
Basic Application	Heat and mix	Heat	Mix
Instrument temperature range	Ambient-99.9°C	Ambient-99.9°C	N/A
Heating lid temperature range	Ambient-105°C	Ambient-105°C	N/A
Temperature uniformity	0.5°C	0.5°C	N/A
Instrument maximum heating rate	4°C/min	4°C/min	N/A
Mixing Speed	200-3000 RPM	N/A	200-3000 RPM
Program	Memory for 100 additional user programs	N/A	Memory for 190 user programs
Power Supply	100-240 V	100-240 V	100-240 V
Size (mm) (WxDxH)	190x350x170 (without heated modules)	190x250x80 (without heated modules)	190x350x200
Weight	8 kg	1.7kg	7 kg
Application	<ul style="list-style-type: none"> ELISA Sample prep for PCR DNA isolation Enzymatic reactions Bacterial growth Lysis reactions Sample Incubation 	<ul style="list-style-type: none"> Preheating of samples Thawing frozen samples Reactions requiring good thermal control Sample incubation Maintaining sample temperature after mixing with the Ther-Mix 	<ul style="list-style-type: none"> Mixing of PCR enzyme preparations DNA isolation methods Mixing of viscous liquids Mixing samples during incubation stages Resuspension of genetic material Mixing of ELISA immunoassays Mixing of bacterial or cell cultures

Catalogue number: V201001 & V201002

Esy-Pik

Vitl Life Science Solutions Esy-Pik tube pickers allow one-handed removal of either 8.5mm microtubes or cryotubes. The Esy-Pik incorporates an eject button to allow pick and place operations whilst avoiding contact with the tube, minimising the risk of heating a frozen sample and possible cross contamination.

Features:

- Single-handed operation
- Low cost
- Temperature and chemically resistant tube contact area
- Reduced risk of thawing of frozen tubes and sample contamination
- Easy-grip
- Lightweight

V201001 Microtube Esy-Pik
V201002 Cryotube Esy-Pik



Product Description	Cat. No.
VTS - Variable Temperature Sealer	V902001
VTS Adaptor Plate for microtitre plates	V902003
VTS Adaptor Plate for 96-well unskirted/semi skirted plates	V902004
VTS Adaptor Plate for deep-well plates	V902005
MTS - MicroTS Heat Sealer	V903001
MTS Adaptor Plate - 96-well semi skirted/unskirted plates	V903003
MTS Adaptor Plate - skirted plates	V903004
MTS Adaptor Plate - deep-well plates	V903005
20um Heat Sealing Foil - colour code GREEN - 100 sheets	V901002
38um Heat Sealing Foil - colour code BLUE - 100 sheets	V901003
68 µm Heat Sealing Foil - colour code YELLOW - 100 sheets	V901008
70 µm Heat Sealing Foil - colour code ORANGE - 100 sheets	V901010
70um Heat Sealing Foil - colour code RED - 100 sheets	V901001
75um Heat Sealing Film - CLEAR - 100 sheets	V901005
85um Heat Sealing Foil - colour code BLACK - 100 sheets	V901004
105um Heat Sealing Film - CLEAR - 100 sheets	V901006
Foil Weight	V901020
Vitl Lu-Mini	V301001
Vitl Co-Mix	V101001
Co-Mix Adaptor-1 (PCR 96)	V101003
Co-Mix Adaptor-2 (0.5ml)	V101004
Co-Mix Adaptor-3 (1.5/2.0ml)	V101005
Vitl Ther-Mix	V102001
Vitl Flexi-Therm	V103001
HM01: 0.5mL Microcentrifuge Tube	V104001
HM02: 1.5mL Microcentrifuge Tube	V104002
HM03: 2.0mL Microcentrifuge Tube	V104003
Microtube Esy-Pik	V201001
Cryotube Esy-Pik	V201002

About ITL Group

ITL Group is the award-winning medical device design, development and manufacturing partner of life-saving medical technology, diagnostic devices and analytical instruments.

Established in 1977, ITL Group, based in Kent, have worked on more than 400 projects at various stages of their product development life-cycle.

With clients ranging from one-man start-ups to world-leading organisations, ITL Group have the capability to take your project from conceptualisation all the way through to full scale manufacture and aftersales support as part of our complete product development service.



For more information about the ITL Group, please visit:

www.itlmedical.com





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