



70 YEARS OF EXPERTISE IN MANUFACTURING SOLUTIONS



FOOD • PHARMA • FORENSICS • CLINICAL



mwe

INTRODUCTION

MWE has been established for 70 years, supplying world-class, reliable sampling and specimen collection devices, including media and swabs in the Food, Pharmaceutical, Forensics, and Clinical Industries.



Stanley Broggio, MWE Founder

We produce swabs, surface wipes, sponges and kits designed to collect and transport bacterial samples, working across all surfaces, including larger areas and carcasses, especially for the food industry. MWE also provides sample collection devices to determine the level of microorganisms on sterile surfaces for the pharma industry.

250
DISTRIBUTORS



120
COUNTRIES



Our products are **compliant** with ISO standards, meet **MDSAP** requirements, and most of them are **FDA approved**.

Our swabs are **certified DNA-free** and are produced under controlled conditions, ensuring **complete reliability** and **integrity** of samples used within Forensics.

A person wearing a white lab coat and blue nitrile gloves is shown in a laboratory setting. They are holding a wooden swab in their right hand and a small, clear vial with a blue screw cap in their left hand. The vial has a label with 'Name' and 'D.O.B.' fields. The background is a blurred laboratory environment with a blue circular object visible.

MEDIA AND ENRICHMENT BROTHS

All our vials feature a **leak-proof, self-standing, screw-cap** tube, made from **shatterproof** material which means there is **no risk** of fragments in food or in a sterile area.

MEDIA AND ENRICHMENT BROTHS

NRS II TRANSWAB®

NRS II Transwab® comes in its classic form as a Neutralising Rinse Solution, which is used to neutralise disinfectants and break through biofilms to ensure recovery of microorganisms from already disinfected areas to test the efficacy of the disinfectant.

It neutralises most disinfectants, including those based on chlorine, peroxygen compounds, amphoteric, biguanides, and glutaraldehyde. The medium contains lecithin, polysorbate 80, and sodium thiosulphate in a peptone phosphate buffer. The formulation conforms to ISO 18593. Precise fill volumes allow accurate quantitative assessment of contamination levels.

Some testing methods (such as Petrifilm®) require medium without thiosulphate. MWE also produces an NRS II medium without thiosulphate.



CHOICE OF FILL

NRS medium and variants are available in a choice of 3 fill sizes, 1ml, 5ml and 10ml. 10ml and 5ml are used with standard and filtration methods while the 1ml can be used directly with Petrifilm®, and other direct pour plating techniques. Choice of fills can also be customised by MWE.

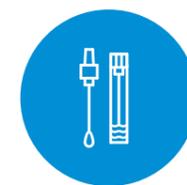
MWE MANUFACTURING

All our vials feature a leak-proof, self-standing, screw-cap tube, made from shatterproof material which means there is no risk of fragments in food or in a sterile area.

Cap: The cap is designed and manufactured with precision tooling to ensure quick turn sure fit for ease of use and safe transportation of the specimen.

Swab: A flexible yet long shaft enables optimum reach and collection of the sample. The swab features a rayon bud that can remain immersed in liquid, yet retains MWE's high standard for absorption, survival and release of microorganisms.

Fill: Tubes are pre-filled with the specified volume of solution to allow for accurate total counts and trend analysis.



We produce a range of swabs for environmental sampling in food and pharmaceutical industries.



MEDIA AND ENRICHMENT BROTHS

Buffered Peptone Water

Buffer peptone water contains sodium chloride with a phosphate buffer and is used in the recovery of Salmonella species. This is used especially when the Salmonella species is sub-lethally injured.

Lethen Broth

Lethen medium is used to determine the bactericidal efficacy of quaternary ammonium-based disinfectants. Lethen Broth is a growth medium recommended by the FDA for use in the microbiological testing of cosmetics, and the formulation is as described in the FDA Bacteriological Analytical Manual. Polysorbate 80 and lecithin are included to partially neutralise the preservatives commonly found in cosmetics.

Butterfield Buffer

Butterfield Buffer is used in standard methods for the enumeration of bacteria and fungi in foods, water and pharmaceutical products. MWE has modified the standard formulation to reduce osmotic shock and enable better sampling. This has been done by the inclusion of a low level of peptone and polysorbate 80 as a surfactant. Our Butterfield Buffer (also called Butterfield's Solution or Butterfield's Phosphate Buffered Dilution Water) contains potassium phosphate as specified by APHA and FDA.

Maximum Recovery Diluent

Maximum Recovery Diluent is a protective and isotonic medium used for maximal recovery of microorganisms from a variety of sources. MWE's diluent is a universal sampling fluid without neutralisers or buffers that is isotonic and protective, and ready to use. It is also the recommended diluent for the sampling of carcasses in the European Union.

Our range includes classic **neutralising** rinse solutions, **buffer** solutions and **isolating** swabs – all depending on the application and need.





POLYWIPE™

Manufactured from a special sponge material containing **no inhibitory substances**, ensuring **maximum recovery** and **detection** of microorganisms.

Polywipes™ are sterile premoistened blue sponge swabs, ready to use and highly effective for the sampling and microbiological assessment of a wide variety of surfaces.

MWE MANUFACTURING

Polywipes™ are manufactured from a special sponge material containing no inhibitory substances, so that maximum recovery and detection of microorganisms is assured. They are pre-moistened with a phosphate buffer (also available with other buffer solutions from MWE), and individually sealed in a tamper evident peel pouch. The structure within the sponge prevents shedding of fragments due to abrasion. They go through irradiation to maintain sterility.

Pre-moistened sterile sponges for sampling larger surfaces

HOW DOES IT WORK?

The sponge format is convenient for sampling larger flat or irregular surfaces, such as conveyor belts and machine parts, as well as floors, walls, drains and ceilings. Since it is pre-moistened, any traces of disinfectant are quickly neutralised, either by simple dilution, or by direct interaction with the neutralising components of the liquid. After use and transportation, they are readily processed in the laboratory using standard techniques. Polywipes™ are also convenient to store at room temperature, and can be carried individually to the sites for testing. The bright blue colour ensures they cannot be easily lost in critical areas.

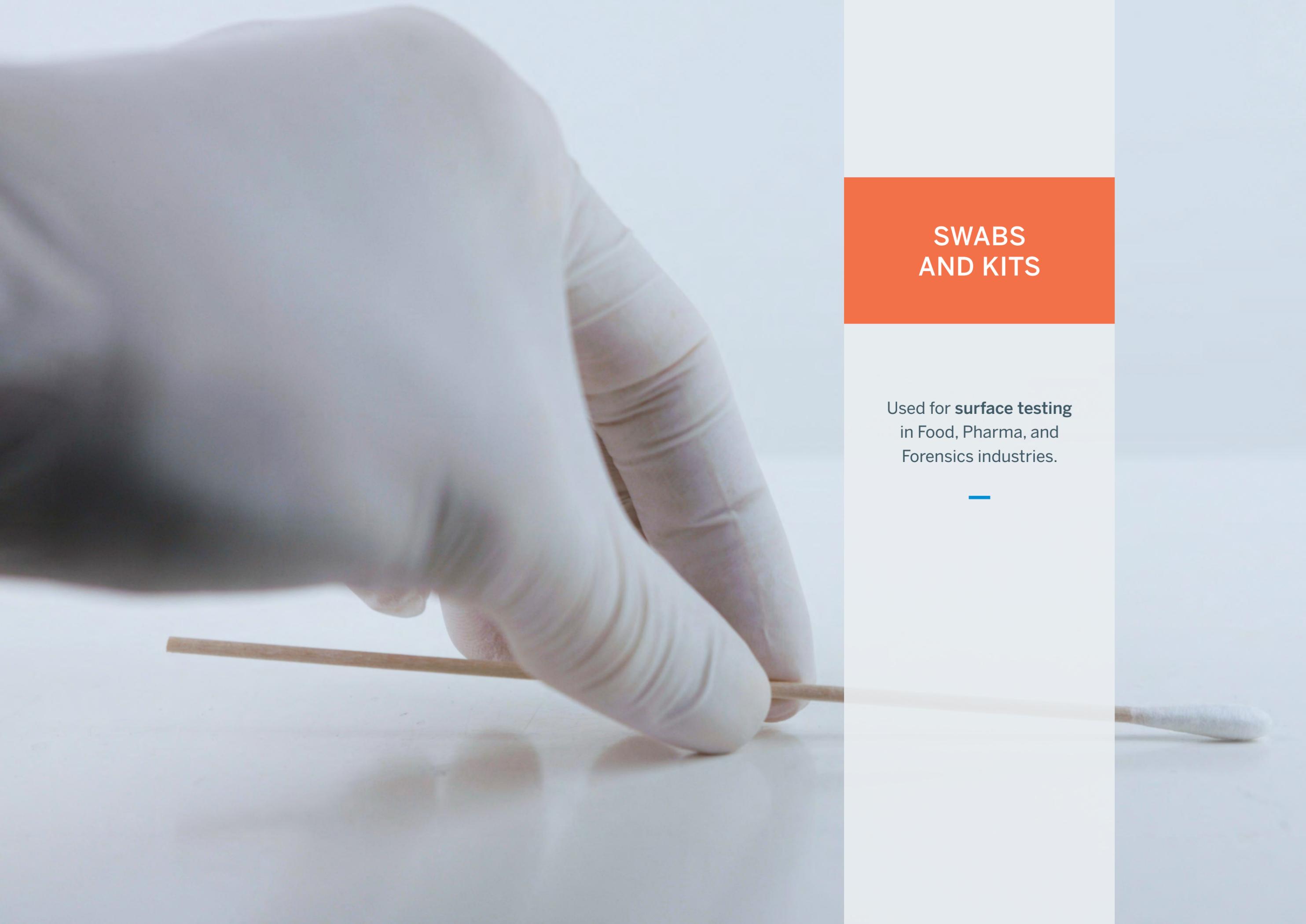
WHERE ARE THEY USED?

Sponge swabs are especially recommended for the sampling of larger areas for the detection of controlled pathogens such as Listeria, Salmonella and coliforms. They are very useful for sampling irregular surfaces such as drains and machine casings, and also for larger areas such as conveyor belts and preparation benches.

European and international standards (including (EC) No.2073/2005) require the regular sampling of the carcasses of cattle, sheep, pigs, goats and horses using sponge swabs. Polywipes™ Carcass Swabs are premoistened with Peptone Saline specially formulated (ISO 17604 & ISO 6887) to comply with these regulations. They can be supplied complete with gloves, resealable bags, and pre-printed label for recording essential information.

Proven to **recover many microorganisms** – including Salmonella, Listeria, MRSA, Acinetobacter and Clostridium difficile.





SWABS AND KITS

Used for **surface testing**
in Food, Pharma, and
Forensics industries.

SWABS AND KITS

STERISWABS™

Steriswabs™ are designed for sampling of critical surfaces including nozzles and equipment in sterile production units in hospitals and in the pharmaceutical industries. They are also particularly useful for surveillance of clean and food contact surfaces in the food manufacturing industry.

Steriswabs™ have a rayon bud on a blue plastic shaft and are pre-moistened with a sterile phosphate buffer. The moistened bud improves the recovery of any microorganisms from the test surface, even if present in low numbers. The swabs have a 45mm breakpoint allowing them to be readily transferred into other test systems. Steriswabs™ are triple wrapped for sterile handling in controlled premises and are sterilised by irradiation.



STERIKIT™

SteriKit™ is a swab-based system for the detection of microbial contamination in sterile production facilities. The SteriKit has a colour change indicator that shows microbial growth, which enables visual detection of the presence of microorganisms. An enrichment broth enhances growth and helps detect microorganisms even if the numbers are low.



HOW DOES IT WORK?

Samples are collected using Steriswab™ pre-moistened swabs and inserted into the SteriKit™ tubes containing an enriched semi-solid medium with colour change growth indicator. Upon incubation any bacteria will grow and cause the colour of the medium to change from purple to yellow within 48 hours. The time taken will depend on the number of organisms, but in the event of any colour development, the swab and medium can be used for further investigation by conventional or molecular microbiological techniques.

It can be stored at room temperature and is triple wrapped to allow sterile handling. This product has been formulated and tested in accordance with UK, European & US Pharmacopoeias.



ISOLATION TRANSWABS®

The kits include a swab for sampling the surface, which is then placed in the provided tube of coloured gel medium, which in turn changes colour if positive.

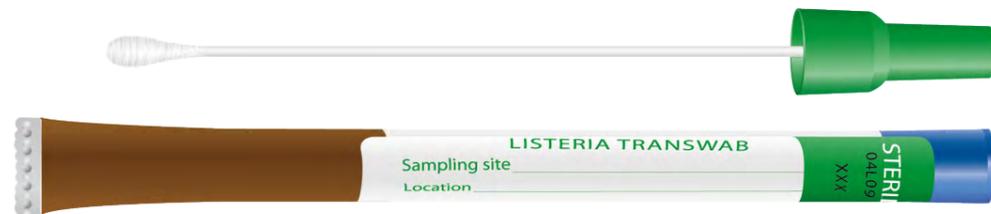
ISOLATION TRANSWABS®

MWE's Isolation Transwabs® are a unique, convenient, and cost-effective range of self-contained environmental sampling swabs. The kits include a swab for sampling the surface, which is then placed in the provided tube of coloured gel medium, which in turn changes colour if positive. Positive results are generally available within 24 hours* and the colour change gives an easy visual representation of microbial growth. These are individually packed and can be stored at room temperature with a 12-month shelf life.

* Allow further 24 hrs to confirm negative results.

Listeria Isolation Transwab®

- Result can be available within 24 hrs (max 48 hrs).
- Colour change for positive: Straw to black.



Coliform Isolation Transwab®

- Result can be available within 24 hrs (max 48 hrs).
- Colour change for positive: Purple to yellow.



Salmonella Isolation Transwab®

- Result can be available within 24 hrs (max 48 hrs).
- Colour change for positive: Red to black.



Hygiene Swab™

- Similar to Isolation Transwab®, but used as indicator for gross microbial contamination.
- Result available within 8–12 hrs.
- Colour change for positive: Red to yellow.



ORDER INFORMATION

NRS II TRANSWAB®

CODE	DILUENT	VOLUME	PACK SIZE
MW784	NRS Neutralising Rinse Solution	5ml	50
MW785	NRS Neutralising Rinse Solution	10ml	50
MW786	NRS Neutralising Rinse Solution	1ml	50
MW782	NRS without Sodium Thiosulphate	1ml	50
MW783	NRS without Sodium Thiosulphate	10ml	50
MW776	Buffered Peptone Water	10ml	50
MW777	Buffered Peptone Water	5ml	50
MW778	Tryptic Soy Broth	5ml	50
MW779	Tryptic Soy Broth	10ml	50
MW780	Butterfield Buffer	10ml	50
MW781	Butterfield Buffer	5ml	50
MW792	Lethen Broth	10ml	50
MW793	Lethen Broth	5ml	50
MW794	Lethen Broth	1ml	50
MW796	Maximum Recovery Diluent (MRD)	10ml	50
MW797	Maximum Recovery Diluent (MRD)	5ml	50
MW798	NRSII Tube, Dry No Swab, screw cap vial	Empty	50
MW799	NRSII Tube, Dry with blue swab, screw cap vial	Empty	50

POLYWIPE™

CODE	DESCRIPTION	FORMAT	PACK SIZE
MW723	In peel pouch with NRS	A, B	50
MW724	In peel pouch with Lethen Broth	A, B, TB	50
MW728	In 110ml Polycon container		50
MW729	Standard with phosphate buffer in peel pouch	A, B, C, TB	50
MW727	With cord in peel pouch	A, B, TB	50
MW726	With Peptone Saline for Carcass sampling	A, B, TB	50

Additional formats available:

A with sterile resealable bags (50) | B with sterile resealable bags & gloves (50) | C with sterile resealable bags (50) & gloves (100) | TB with sterile re-sealable twistbags & gloves (50)

FLEXISWAB™

CODE	DESCRIPTION	PACK SIZE
MW159	Flexiswab™, 8 inch (205mm) strong flexible blue shaft with larger rayon bud, labelled tube	100

ISOLATION TRANSWABS®

CODE	DESCRIPTION	PACK SIZE
MW504125	Hygiene Swab™	125
MW50425	Hygiene Swab™	25
MW503125	Coliform Isolation Transwab®	125
MW50325	Coliform Isolation Transwab®	25
MW570125	Listeria Isolation Transwab®	125
MW57025	Listeria Isolation Transwab®	25
MW572M125	Salmonella Isolation Transwab®	125
MW572M25	Salmonella Isolation Transwab®	25

STERISWAB™

CODE	DESCRIPTION	PACK SIZE
MW720/100	Individual pre-moistened blue, breakpoint swab, labelled tube	100
MW720	Individual pre-moistened blue, breakpoint swab, labelled tube	250
MW730	Individual blue, breakpoint swab, labelled tube	250
MW735/1	Single blue, breakpoint swab in peel pouch	100

STERIKIT™

CODE	DESCRIPTION	PACK SIZE
MW750	Sterikit™ indicator swab system for sterile testing of surfaces in pharmaceuticals (triple wrapped)	50



Medical Wire & Equipment Co. (Bath) Ltd, Corsham, Wiltshire, England, SN13 9RT
+44 (0)1225 810361 | mwe.co.uk

