Mast Group Ltd.
Mast House, Derby Road,
Bootle, Merseyside, L20 1EA
United Kingdom
Tel: + 44 (0) 151 472 1444
Fax: + 44 (0) 151 944 1332
email: sales@mast-group.com
Web: www.mast-group.com

Mast Diagnostica GmbH
Feldstrasse 20
DE-23858 Reinfeld
Germany
Tel: + 49 (0) 4533 2007 0
Fax: + 49 (0) 4533 2007 68
email: mast@mast-diagnostica.de
Web: www.mast-group.com

Mast Diagnostic
12 rue Jean-Jacques Mention
CS91106, 80011 Amiens, CEDEX 1
France
Tél: + 33 (0) 3 22 80 80 67
Fax: + 33 (0) 3 22 80 99 22
email: info@mast-diagnostic.fr
Web: www.mast-group.com

Maximum Recovery Diluent

DM635

Intended use
An isotonic diluent for reducing physiological shock and allowing maximum recovery of micro-organisms from samples.

Contents
See pack label.

Formulation*

Material:	Concentration in medium:
Peptone	1.0g/litre
Sodium chloride	8.5g/litre
Final pH: 7.0 ± 0.2	

Storage and shelf life
All dehydrated culture media containers should be kept tightly closed and stored in a dry place at 10 to 25°C until the expiry date shown on the pack label.

Precautions
For *in vitro* diagnostic use only. Observe approved hazard precautions and aseptic techniques. To be used only by adequately trained and qualified laboratory personnel. Sterilise all biohazard waste before disposal. Refer to Product Safety Data sheet (available on request or via MAST® website).

Materials required but not provided
Standard microbiological supplies and equipment such as loops, MAST® selective supplements, swabs, applicator sticks, incinerators and incubators, etc., as well as serological and biochemical reagents and additives such as blood.

Procedure
1. Refer to pack label for quantities and volumes required. Prepare MAST® Maximum Recovery Diluent (DM635D) by suspending the powder in distilled or deionised water. For sachet packs, dissolve the entire contents of the sachet in the volume shown on the label.
2. Dispense into final containers and autoclave at 121°C (15 p.s.i.) for 15 minutes.
3. Allow to cool before use.
4. Prepared medium may be used immediately or stored at 2 to 8°C for up to one week before use.
5. Make an initial suspension of test sample by measuring out 10g or 10ml, placing it into a sterile blender jar or sterile plastic stomacher bag and adding 90ml of sterile Maximum Recovery Diluent.
6. Process the samples in a blender or a peristaltic stomacher machine for 2 minutes
7. Within 15 minutes transfer 1ml of the macerate into 9ml of sterile diluent and mix well (10^{-1} dilution).
8. Prepare further required decimal dilutions as required.
9. Aseptically transfer 1ml from each dilution in duplicate to the centre of a Petri dish.
10. Prepare pour plates with the medium of choice, allow to set and incubate as indicated in the appropriate laboratory method.

Interpretation of results
After incubation record growth of organisms. Typical characteristics to note include: colony size and morphology and pigmentation,

Quality control
Check for signs of deterioration. Quality control must be performed with at least one organism to demonstrate expected performance. Do not use the product if the result with the control organism is incorrect. The list below illustrates a range of performance control strains which the end user can easily obtain.

Test Organisms	Result
Staphylococcus aureus ATCC® 25923	Growth on appropriate solid medium
Escherichia coli ATCC® 25922	Growth on appropriate solid medium

References
Bibliography available on request.

IFU416 GB 08/20 V5

*Formulation may change to meet performance criteria