Instructions for Use

REF - BM0650 **Deionised Water**

Bottled Media

1. Intended Use

For in vitro diagnostic use. BM0650 Deionised Water is water that has been purified by reverse osmosis to remove ions then terminally sterilised for general laboratory use.

2. Composition*

Ingredient	g/L
Deionised water	1000ml

3. Summary and Explanation

Deionised Water can be used as a rinse, diluent, or in the production of liquid and solid media from dehydrated culture media.

4. Physical Characteristics

	Appearance and Colour	pH
Medium	Colourless liquid	N/A

5. Materials Provided

BM0650 can be provided in the formats detailed below. Each bottle is ink-jet printed or labelled with (abbreviated) product name, product code, lot number and expiry date.

Product Code	Product Format
BM0650-M002-20	50 x 20ml in Thin Wall Universals
BM0650-M003-2	50 x 2ml in Thin Wall Bijous
BM0650-M003-3	50 x 3ml in Thin Wall Bijous
BM0650-M003-5	50 x 5ml in Thin Wall Bijous
BM0650-M013-5	50 x 5ml in (150mm x 16mm) Tubes
BM0650-R125-100	10 x 100ml in 125ml Sirop Bottles

6. Materials Needed but not Provided

Standard microbiological laboratory materials e.g., sterile loops or swabs, collection containers, incubators, media for isolation and quality control organisms.

7. Specimens

BM0650 Deionised Water can be used in the preparation of bacterial suspensions and as a general-purpose diluent in areas of the laboratory but is not used as a culture medium itself.

8. Test Procedures and Interpretation of results

To create serial dilutions, prepare a suspension using a ratio of 1:10 of sample to Deionised Water and homogenise. This can be repeated multiple times to create further dilutions. For further details, see CLSI: M40: Quality Control of Microbiological Transport Systems [(1)].

9. Quality Control

Organism	Incubation	Result (Specificity)
E. coli (NCTC 12241) *S. aureus* (NCTC 12981)	Inoculate the Productivity bottles with the stated dilution and immediately subculture 100µl of each bottle onto a separate E&O PP0280 Tryptone Soya Agar plate (Before plates). Incubate the inoculated bottles at 20-25°C aerobically for 45-60 minutes. After incubation, subculture 100µl of each bottle onto a separate E&O PP0280 Tryptone Soya Agar plate (After plates). Incubate E&O PP0280 Tryptone Soya Agar plates at 37 ± 1°C for 18-24 hours.	Stable viability (≤30% cfu difference). Subplate: Cream colonies Stable viability (≤30% cfu difference). Subplate: White colonies

It is the responsibility of the user to perform Quality Control testing taking into consideration the intended use of the medium and in agreement with any local relevant guidelines (e.g., frequency, strains used, atmosphere, incubation temperature).

10. Performance

To fully verify BM0650 Deionised Water performance, samples were tested to assess stable viability using the method outlined in the Quality Control table above. All samples showed stable viability and the correct morphology of the required test organisms on subplates: *Escherichia coli* (NCTC 12241) and *Staphylococcus aureus* (NCTC 12981). Therefore, it can be concluded that BM0650 Deionised Water, meets performance criteria when used according to the instructions outlined above. Trend analysis data available upon request.

11. Precautions and Warnings

This product is considered non-hazardous under CLP regulations. Wear such PPE as recommended by laboratory COSHH assessment. During and after use, always handle all materials in a manner conforming to Good Laboratory Practices and consider that material under test should be regarded as a potential biohazard if mishandled.

Refer to Bottled Media Material Safety Data Sheet.

12. Storage conditions and Shelf life

Store BM0650 in the original bottle with the lid tightly closed at between 2 and 30°C. Kept under these conditions it may be used up to date of expiry shown on product label.

Dispose of in accordance with local and national authority requirements. Do not use media if it is contaminated, discoloured or out of date. Additionally, do not use medium if it has been stored inappropriately or the packaging has been damaged.

13. References

1. CLSI (2015) M40 Quality Control of Microbiological Transport Systems, 2nd Ed.

Version History*

001 06/04/23 - New Document Created
002 15/08/24 - Updated storage conditions

*Note: minor typographical, grammatical, and formatting changes are not included in the revision history.

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TABLE OF APPLICABLE SYMBOLS

REF o REF Catalogue number	LOT Batch code	IVD *In vitro* Diagnostic Medical Device	Manufacturer	Use by
Temperature limitation	Contents sufficient for <n> tests	Consult Instructions for Use	Keep away from direct light	Store in a dry place