

## Technical Data Sheet

### RINGER Tablets for the preparation of RINGER's solution

Ordering number: 1.15525.0001

RINGER solution is utilized as a diluent for preparing suspensions in bacteriological studies, especially in the examination of milk.

The tablets comply with the recommendations of the International Dairy Federation FIL-IDF (Internationaler Milchwirtschaftsverband) (1985, 1992).

#### Mode of Action

1/4-strength RINGER solution is isotonic with bacteria and thus prevents them from being subjected to osmotic shock or from being osmotically damaged when they are removed from their customary environment. It is also more physiologically suitable for sensitive microorganisms than physiological saline.

#### Typical Composition

NaCl	1.125 g/tablet
KCl	0.0525 g/tablet
CaCl <sub>2</sub> , anhydrous	0.03 g/tablet
NaHCO <sub>3</sub>	0.025 g/tablet

#### Preparation

1/4-strength RINGER solution is prepared by dissolving one tablet in 500 ml neutral deionized water. Sterilize in the autoclave (15 min at 121 °C).

The pH value at 25 °C is in the range of 6.8-7.2.

The appearance of the solution is clear (after autoclave).

## Literature

Internationaler Milchwirtschaftsverband (1985). Zählung coliformer Bakterien in Milch und Milchprodukten (Internationaler Standard FIL-IDF 73).

Internationaler Milchwirtschaftsverband (1992). Milch und Milchprodukte - Vorbereitung der Untersuchungsproben und Herstellung der Verdünnungen für mikrobiologische Untersuchungen (Internationaler IMV-Standard 122).

Ministry of Health (1937). Bacteriological tests for graded milk. Memo 139/Foods. London.

## Ordering Information

Product	Cat. No.	Pack size
RINGER Tablets for the preparation of RINGER's solution	1.15525.0001	1 x 100 tablets

MilliporeSigma 290  
Concord Road  
Billerica, MA 01821

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country at:  
[www.EMDmillipore.com/offices](http://www.EMDmillipore.com/offices)

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