

## 96724 Ringers solution 1/4 strength tablets

A solution that maintains the osmotic balance for bacteria. Used for the preparation of suspension of samples and for use as a diluent in dilution techniques for enumeration. Also used in the microbial control of apparatus by the rinse and swab method.

### Composition:

Ingredients	Grams/Litre
Sodium chloride	2.25
Potassium chloride	0.105
Calcium chloride hexahydrate	0.12
Sodium bicarbonate	0.05

Prepared media may be stored at temperatures below 8°C for up to one week, protected against dehydration and from direct light. Store dehydrated powder, in a dry place, in tightly-sealed containers at 2-25°C.

### Directions:

Dissolve 1 tablet in 500 ml of deionised water. Adjust the pH to 7.0 if not needed different and sterilize by autoclaving at 121°C for 15 minutes.

### Principle and Interpretation:

The salts in the solution are used for providing an isotonic diluent or as a rinse during the bacteriological examination of plant and apparatus.

The quarter-strength Ringer Solution may be used for dilution series of milk, dairy product and other samples, prior to inoculation into a liquid or onto a solid media. It is also helpful for doing suspension of solid food and other specimens before microbiological examination. It is may also used to dilute pure bacteria colonies or to examine a plant or apparatus with the rinse or swab method(2).

### References:

1. Dept. of Health & Social Security, Memo. 139/Foods (1937)
2. J.G. Davis, Laboratory Control of Dairy Plant, Dairy Industries Ltd., London (1956)

### Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

