

Complement Fixation Test Buffer

20X concentrated CFT Buffer

Product code: CFTB-4L

For *in vitro* diagnostic use

Introduction

The Complement Fixation Test Buffer (after dilution, expected final pH of the 1X solution: 7.25 ± 0.1) is used to dilute the sera and reagents for the Complement Fixation Test (CFT).

It allows to obtain precise pH conditions and can also contribute to reduce the number of anti-complement sera. The presence of Ca^{++} and Mg^{++} ions reinforces complement activity.

Reagent composition

Calcium-Magnesium Hepes Buffer, with NaCl	4 bottles of 50 mL, 20X concentrated Each bottle allows the preparation of 1L of 1X CFTB
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Reagents required but not supplied

Reagents required for the CFT: <ul style="list-style-type: none"> - Complement (IDvet product code: CPLT) - Hemolytic serum (IDvet product code : HS) - Sheep red blood cells 50 %. - Antigen for complement fixation test: can be used for any CFT application, regardless of the source of antigen. (IDvet product codes : AG-BRU for <i>Brucella abortus</i>, AG-OCE for <i>Brucella ovis</i>) 	Material required: <p>For the preparation of 1X CFTB :</p> <ul style="list-style-type: none"> - Distilled or equivalent quality grade (pure or ultra-pure) water. - Clean laboratory vessel in glass or plastic, clean graduated cylinder. <p>For CFT reactions : laboratory material and consumables mentioned in the CFT standards in force.</p>
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Precautions of use

- For *in vitro* diagnostic use only.
- Do not use reagents after the expiry date.
- Do not mix reagents from different batches.
- Do not pipette by mouth.
- Preserve solutions from microbial contamination (do not open/close the vial often, use clean pipettes, etc.) for long term storage. Do not use if the solution looks contaminated (e.g cloudy liquid, particles in suspension, etc.)

Protocol

- Dilute 1:20 each bottle of the 20X concentrated CFT Buffer in distilled or equivalent quality grade water (pure or ultra-pure), **quantity sufficient for 1 liter.**
- Mix.
- Store in glass or plastic (e.g polyethylene or polycarbonate) clean bottle(s).
- Label the bottle(s) with the preparation date and batch number of 20X CTFB. Preserve the maximum the 1X CFTB from contamination.

Storage conditions

- Before dilution, under 20X concentrated form: 3 years at $5 \pm 3^{\circ}\text{C}$, until the expiry date indicated on the label.
- After dilution, in ready-to-use 1X form: up to 2 months at $5 \pm 3^{\circ}\text{C}$ (preserve from contamination).

Waste disposal

- Unused CTFB (20X or 1X) may be considered as non-dangerous waste. After use, must be considered as biological waste and eliminated according to the local regulation in force.

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