

# 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:  $7.25 \pm 0.1$ ) 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  $\text{Ca}^{++}$  and  $\text{Mg}^{++}$  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
---	---

## Reagents required but not supplied

<b>Reagents required for the CFT:</b>  - 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> )	<b>Material required:</b>  <b>For the preparation of 1X CFTB :</b> - Distilled or equivalent quality grade (pure or ultra-pure) water. - Clean laboratory vessel in glass or plastic, clean graduated cylinder.  <b>For CFT reactions :</b> laboratory material and consumables mentioned in the CFT standards in force.
---	--

## 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 CFTB. 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 CFTB (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.

# 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:  $7.25 \pm 0.1$ ) 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  $\text{Ca}^{++}$  and  $\text{Mg}^{++}$  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
---	---

## Reagents required but not supplied

<b>Reagents required for the CFT:</b>  - 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> )	<b>Material required:</b>  <b>For the preparation of 1X CFTB :</b> - Distilled or equivalent quality grade (pure or ultra-pure) water. - Clean laboratory vessel in glass or plastic, clean graduated cylinder.  <b>For CFT reactions :</b> laboratory material and consumables mentioned in the CFT standards in force.
---	--

## 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 CFTB. 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 CFTB (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.