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HeMoStep™ Kit

Most reliable method to **quantify blood contamination** in **CSF**

CE IVD

Controls provided

Compatible with standard FCM cytometers

ADVANTAGES

1. Highly **sensitive** and **accurate**
2. **High specificity** without known interferents
3. Compatible with **stabilized samples**
4. **Avoid cytotoxic effects** and cell losses
5. **Minimizes** sample usage
6. **Reliable** and **reproducible** results

Do you want more information?
Scan this QR code and see all the details of our HeMoStep kit.

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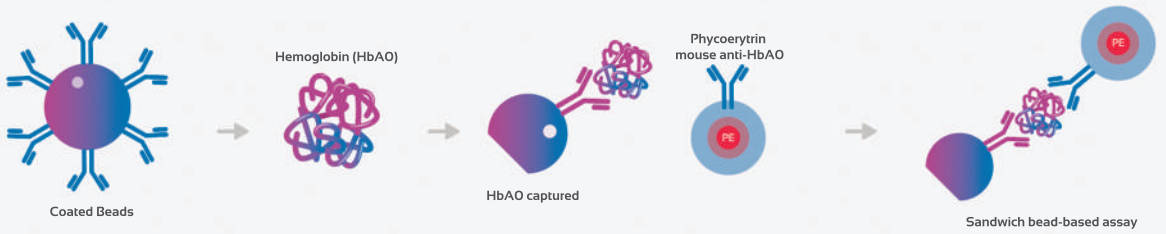
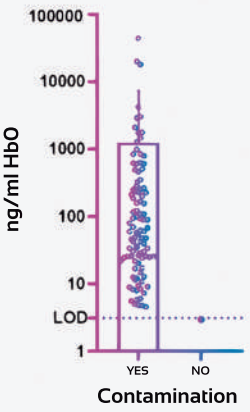
PRINCIPLE OF METHOD



1. The capture beads are coated with an anti-hemoglobin antibody.
2. This binding makes all the hemoglobin able to bind to the antibody-coated beads.
3. A second conjugated anti-hemoglobin antibody (phycoerythrin labeled) binds to the beads.

KIT PERFORMANCE

A. QUANTIFICATION OF VISIBLY UNDETECTABLE CONTAMINATIONS



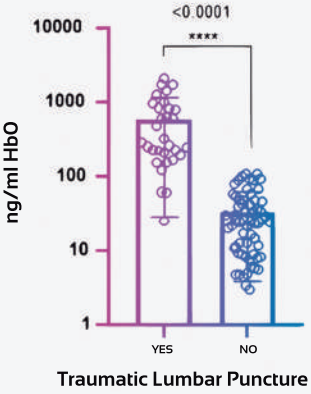
High analytical sensitivity
- LoD: [3,15 ng/ml]

The analytical sensitivity of the kit allows it to detect contaminations lower than 1 RBC/µl.

Expected values of contamination in [RBC/µl] (n = 115).

Fig. 1: LoD in relation to expected values of contamination [HbO ng/ml], (n=115).

B. CORRECT CLASSIFICATION BETWEEN TRAUMATIC AND NON-TRAUMATIC LP SAMPLES WITH GREAT ACCURACY



BETTER PERFORMANCE THAN TRADITIONAL METHODS

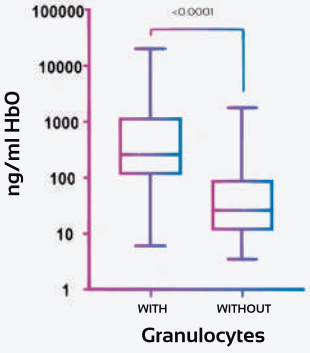
	Kit HbO	Granulocyte count	p
Traumatic LP	34/34 (100%)	25/34 (70%)	<0.001

Neutrophil absolute counting method detected contamination in 70% of the samples identified as traumatic punctures, whil the new method detected peripheral blood contamination in 100% of these samples.

EASY CONVERSION FROM ng/ml of HbO to RBC/µl

Fig. 2: Expected values of contamination in [HbO ng/ml] in traumatic lumbar Puncture, (n= 34).

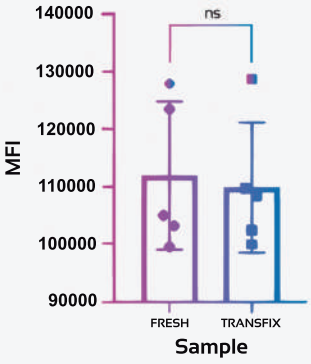
C. AGREEMENT BETWEEN METHODS



High positive linear correlation (r=0.9) with respect to other methods, like granulocyte or RBC count. (n = 115).

Fig. 3: Correlation between presence/absence of granulocytes and [HbO] in traumatic LP samples, (n= 34).

D. COMPATIBLE WITH STABILIZED SAMPLES



Similar results between samples stabilized with Transfix (1:20) and without stabilization (fresh).

Fig. 4: MFI comparative between same sample stabilized with Transfix (1:20) and without stabilization (fresh).

Patented method. Manufactured by Immunostep under USAL license.
"Methods and kits for the detection of cancer infiltration of the central nervous system" / EP2551673B1; US9746472B2

PROTOCOL