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HemoStep™ Kit

Most reliable method to quantify blood contamination in CSF

CE IVD

Controls provided

Compatible with standard FCM cytometers

And CytoStep web app , which simplifies and automates the analysis

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
7. It features CytoStep software to guide you through this entire process in an intuitive manner

Do you want more information?
Scan this QR code and see all the details

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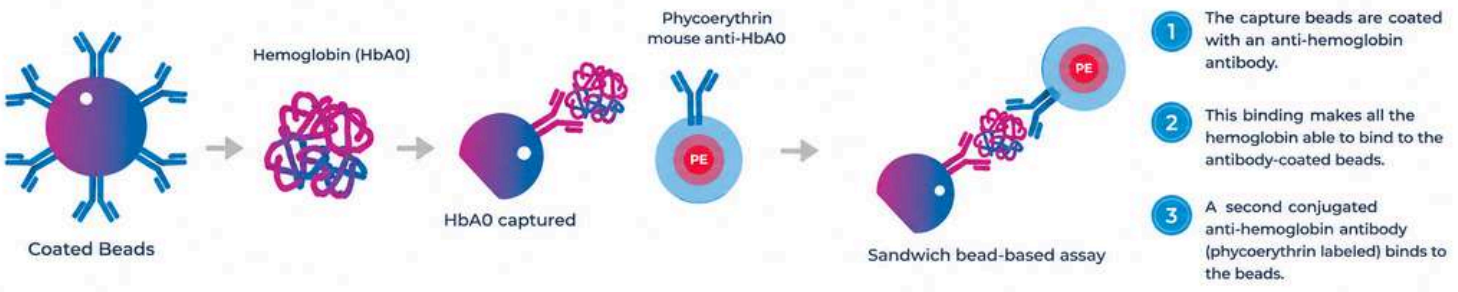
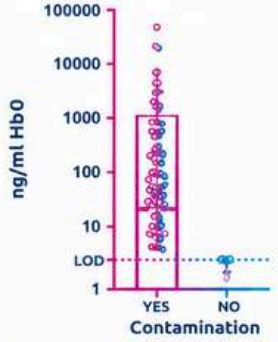
PRINCIPLE OF METHOD



KIT PERFORMANCE

A. QUANTIFICATION OF VISIBLY UNDETECTABLE CONTAMINATIONS



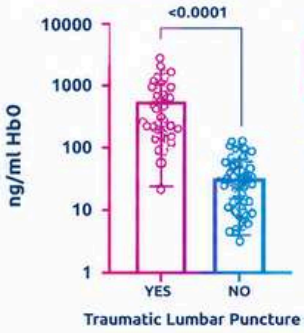
High analytical sensitivity - LOD: [9.15 ng/ml]

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 (Hb0 ng/ml) (n=115).

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



BETTER PERFORMANCE THAN TRADITIONAL METHODS

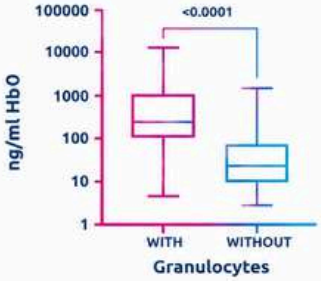
Method	Hit-Hb0	Cut-off	
Traumatic LP	34/34 (100%)	25/34 (70%)	<0.001

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

EASY CONVERSION FROM ng/ml to Hb0 to RBC/µl

Fig 2: Expected values of contamination (ng/Hb0 ng/ml) in traumatic lumbar puncture (n= 34).

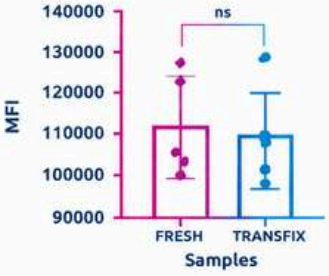
C. AGREEMENT BETWEEN METHODS



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 [Hb0] in traumatic LP samples. (n= 34).

D. COMPATIBLE WITH STABILIZED SAMPLES

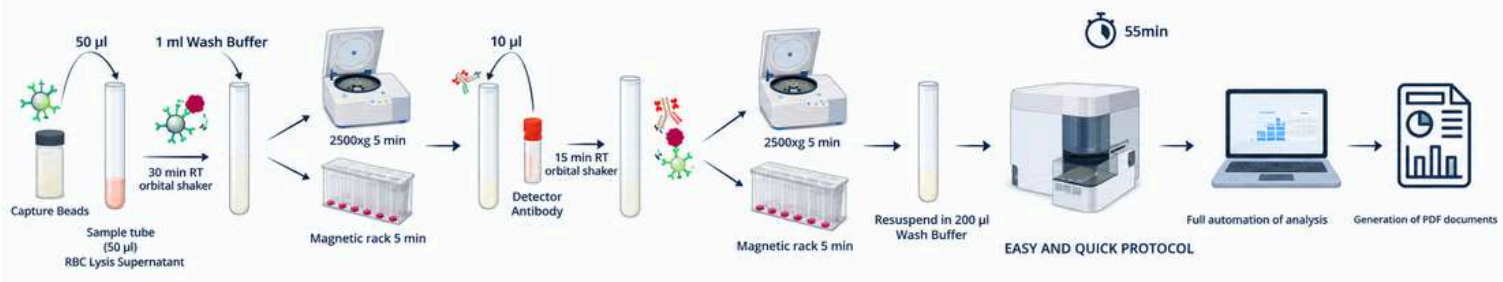


Similar results between samples stabilized with TransFix (1:20) and without stabilization (fresh).

Fig 4: MFI comparison between samples stabilized with TransFix (1:20) and without stabilization (fresh).

Patented method. Manufactured by Immunostep under USAL license.
"Methods and kits for the detection of blood contamination in cerebrospinal fluid" / EP2551673B1; US9746472B2

PROTOCOL



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