

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

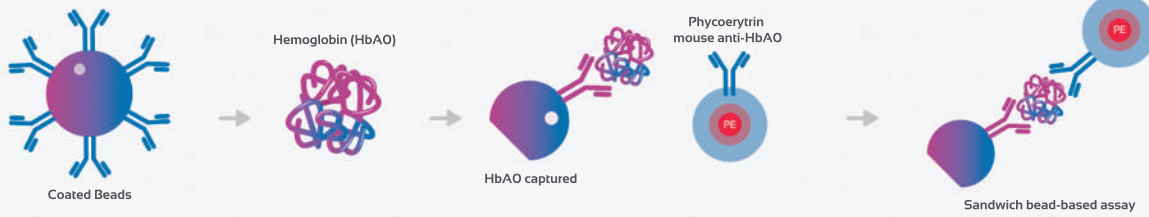


Do you want more information?
Scan this QR code and see
all the details of our
HeMoStep kit.

 we know how
immunostep

Avda. Universidad de Coimbra, s/n
Cancer Research Center (C.I.C.)
Campus Miguel de Unamuno
37007 Salamanca (Spain)
+34 923 294 827
info@immunostep.com
www.immunostep.com

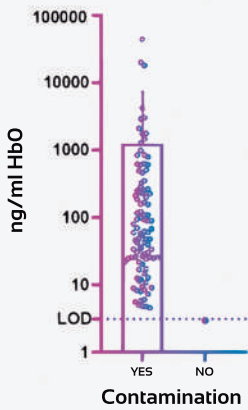
> PRINCIPLE OF METHOD



- 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



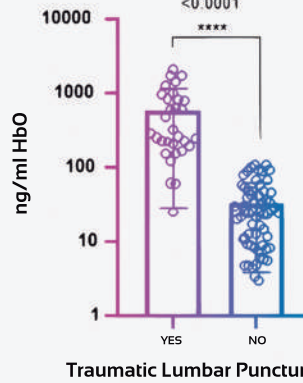
High analytical sensitivity
- LoD: [3,15 ng/ml]

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

Expected values of contamination in [RBC/ μ l] (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

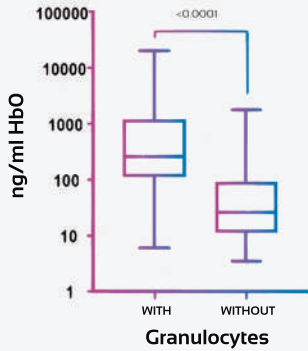
	Kit HbO	Granulocyte count	p
Traumatic LP	34/34 (100%)	25/34 (70%)	<math>< 0.001</math>

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 of HbO to RBC/ μ l

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

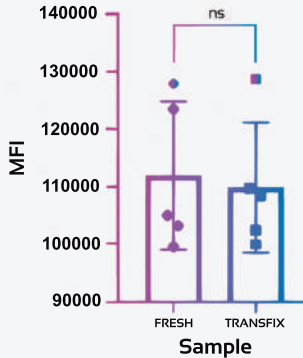
C. AGREEMENT BETWEEN METHODS



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

