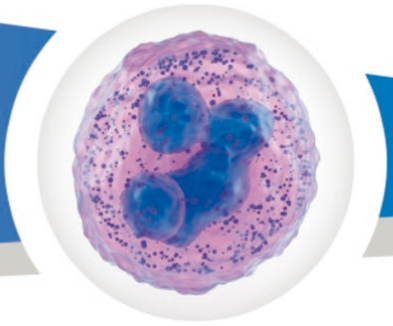
SHOP ONLINE!

www.immunostep.com

we know how immunostep

BASOSTEP

Determination of basophil activation upon allergen estimulation by Flow Cytometry.



PRINCIPLE

Using defined allergens, this test provides information concerning of IgE-mediated allergic disorders via the CD63 antigen as a marker of basophil activation.

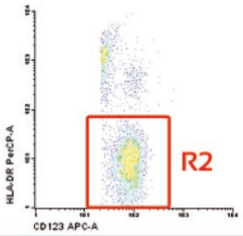
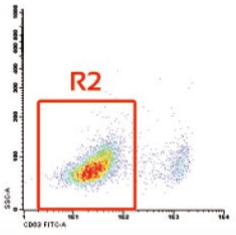
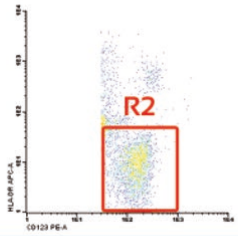
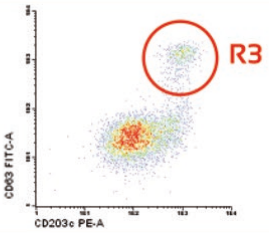
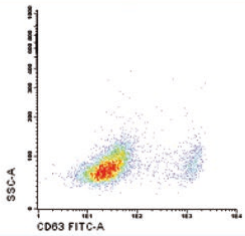
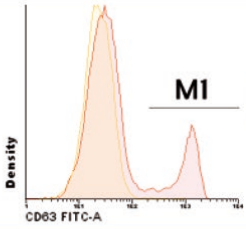
ADVANTAGES

1. Safer, since it does not expose the patient to any alergens. Allergy blood testing is the preferred test for infants and very young children.

2. More specific identification of basophils than other thest. CD203c marker included in the test is specific marker for basophils and mast cells.

3. Simple and fast, the kit contains positive and negative controls in liophilized tubes, for ease handling.

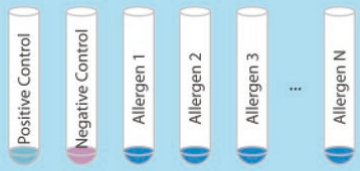
4. Versatil kit that offers 3 differents solutions (antibody combinations, prices) depending on the clinician needs.

	BSTP-100T	BSTP2-100T	BST3-100T
Step 1: Select the population of R2 *The use of CD123 and HLA-DR allows us to identify basophils cells			
Step 2: Select the R3 population with CD203c vs CD63 FITC * Dot Plot CD203c vs CD63 allows us to the correct identification of the basophils cells and the activation progress			
Step 3: Using the fluorescence intensity of CD63 analyze the results	 **18,60% activated basophils in Positive Control tube**		

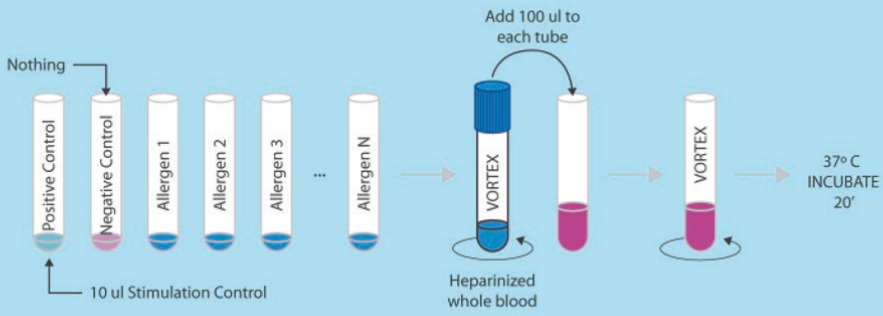
Control Negative are represented by the yellow histogram and Positive Control by red histogram. Cells were analyzed on a FACSAria II (Becton Dickinson, San Jose, CA) flow cytometer, using BD FACSDiva software.

ASSAY PROCEDURE

1. SAMPLE PREPARATION

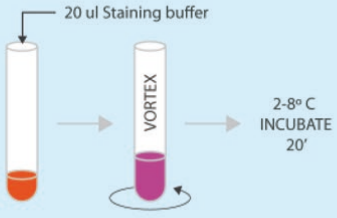


2. DEGRANULATION

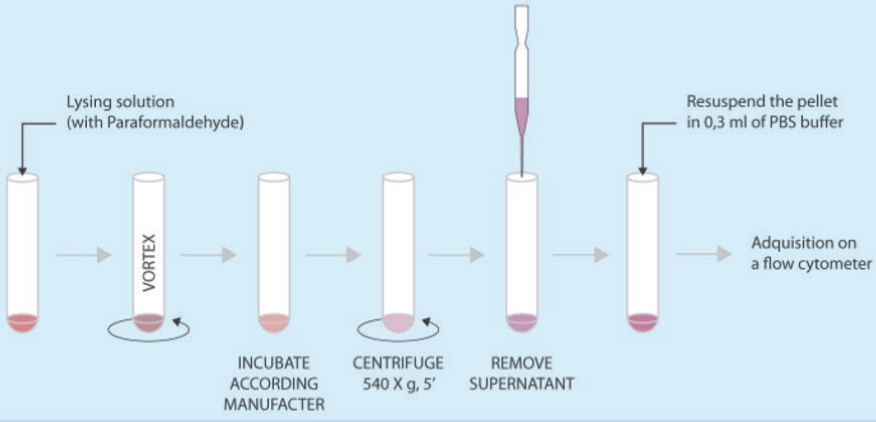


We recommended testing several dilution of each Allergen (e.g. 1:100; 1:1000; 1:10.000; 1:100.000; 1:1.000.000)

3. LABELLING

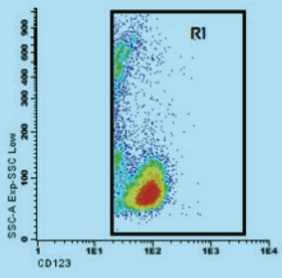


4. LYSING AND FIXATION



5. ADQUISITION

Set on the cytometer to store only the events in the region R1 as imagen right:



Acquire and store all R1 events possible. It is recommended to acquire at a low or medium speed to avoid cell aggregates.

BSTP-100T	BSTP2-100T	BST3-100T
STAINING REAGENT · CD63 FITC · CD203c PE · HLA-DR PERCP · CD123 APC	STAINING REAGENT · CD63 FITC · CD123 PE · HLA-DR PERCP	STAINING REAGENT · CD63 FITC · CD123 PE · HLA-DR APC
POSITIVE CONTROL · fMLP · Anti-Ig E		
STIMULATION BUFFER Containing calcium, heparin and IL-3		
Required apparatus: Flow cytometer with 488 nm and 633 nm excitation wavelength	**Required apparatus:** Flow cytometer with 488 nm excitation wavelength	**Required apparatus:** Flow cytometer with 488 nm and 633 nm excitation wavelength

REFERENCES:

Sainte-Laudy, J, et al. Analysis of membrane expression of the CD63 human basophil activation marker. Applications to allergologic diagnosis. Allerg. Immunol. Paris 26, 211-4 (1994)

we know how
immunostep

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