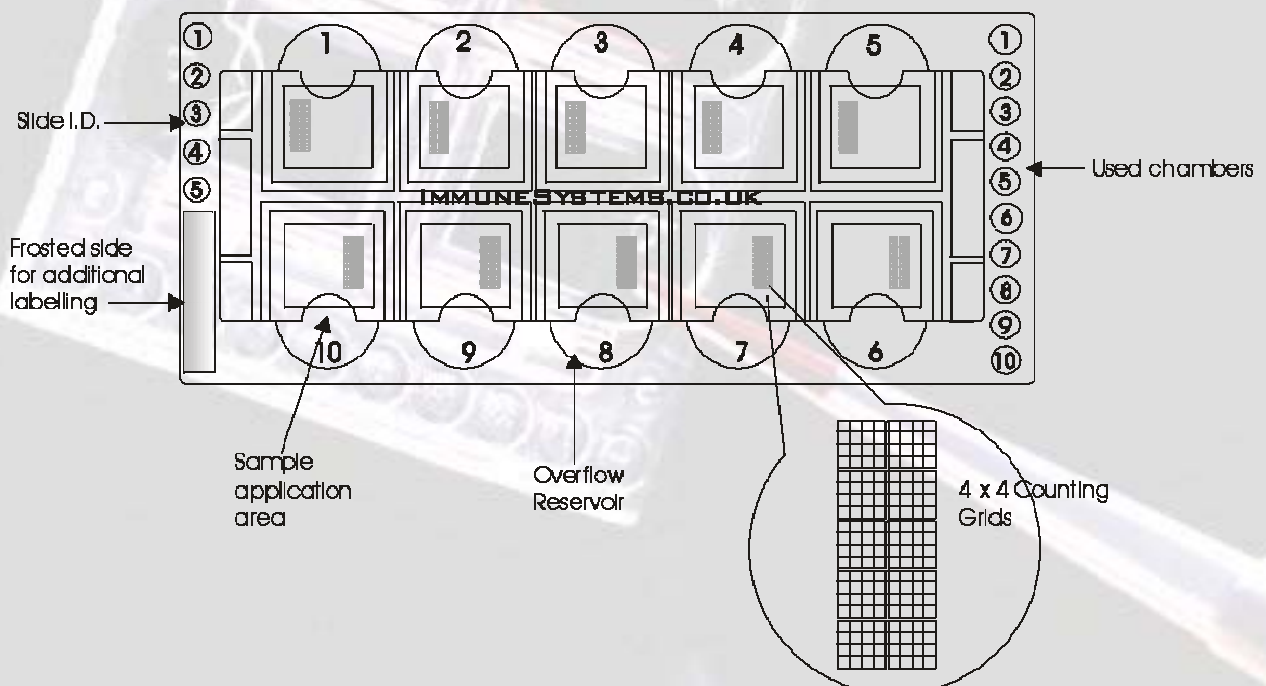


# FastRead 102™

Disposable plastic counting slides  
10 separate counting grids per slide  
Neubauer counting slide alternative

FastRead-102 is a 10-chamber counting grid with integral optically-clear, acrylic cover-slip. They are ideal for the quantitation of particulate material in fluids (e.g. water and urine analysis and cell counting).

- Reproducible** Each slide has a standardised depth providing accuracy and precision over conventional chambers.
- Quick** The chambers are ready for use, no placement of cover-slip required, or time-consuming decontamination and rinse procedures.
- Hygienic** Slides can be disposed of in accordance with the Safety Regulations for the sample, and are ideal for "High Risk" samples.
- Safe** No sharp-edged cover-slip to locate over the chamber before use.
- Economical** 10 chambers per slide.



## Features

### Segregated chambers

Each chamber is separate, with its own overflow reservoir for excess sample to prevent cross-contamination.

### Identification system

Classification of the slides can be made by marking the moulded numbers with a permanent marker pen. The right-hand side is used for identifying used chambers, the left-hand side for numbering the slide. The frosted panel allows for additional labelling.

### Sample introduction

Mixed sample is introduced into the chamber as a drop at the Sample Application area (see diagram) using a pipette. Accuracy is improved by using 9 l sample volume and counting more 4x4 grids. Liquid is drawn into the chamber by capillary action. Excess fluid is expelled into the overflow reservoir, leaving the correct volume of fluid over the grids.

### Counting

Each counting chamber consists of ten 4x4 grids. The volume above each 4x4 grid is  $10^{-4}$  ml (0.1 µl). The concentration (counts/ml) is given by:

$$(1) \text{ counts/ml} = \frac{\text{total counts}}{\text{number of complete 4x4 grids counted}} \times 10^4 \times \text{sample dilution (if any)}$$

If counting less than one complete 4x4 grid (i.e. less than 16 *squares*), use the following calculation (which scales the number of counts to one whole 4x4 grid):

$$(2) \text{ Counts/ml} = \frac{\text{total counts} \times 16}{\text{number of individual squares counted}} \times 10^4 \times \text{sample dilution (if any)}$$

Example : use 16/5 in calculation (2) if only 5 *individual squares* are counted

### Slide specifications

Overall slide dimensions	85 x 40mm
Total 5x2 grid dimension	5 x 2mm
4 x 4 grid dimension	1 x 1mm
Sample chamber depth	0.1mm
Sample chamber volume	7µl
Total grid volume (ie 10 x 4x4grids)	$10^{-3}$ ml (1µl)
Each 4x4 grid volume	$10^{-4}$ ml (0.1µl)

### Ordering information (2009)

Product	Code	Box size	Quantity	
FastRead 102	BVS 100	100 slides	1 box	
			2 boxes	
			3 boxes	
			4 boxes	
			5 boxes	
			10 boxes	

\* Prices valid from January 2009 and are be subject to change without notice

For *in vitro* research and manufacturing use only



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