

## Cyto-Cal™ 488 Alignment Standard

**CATALOG NUMBER:** FA30

**VOLUME:** 3 mL aqueous suspension with 0.05% Tween-20 and 2 mM sodium azide

**CONCENTRATION:**  $5 \times 10^6$  particles/mL

**STORAGE UPON RECEIPT:** Store at 2-8 °C, protected from light. Do not freeze.

**PRODUCT DESCRIPTION:** The Cyto-Cal 488 Alignment Standard is designed for aligning and focusing the optical components of a flow cytometer. The 3 micrometer ( $\mu\text{m}$ ) microspheres are highly uniform and are precisely stained with a fluorescent dye that has optimized intensity and broad emission in all three channels (FL1, FL2 and FL3) when excited with the primary 488 nm spectral line of the argon laser. The microspheres are stable and can be reliably used as a daily reference standard for monitoring the instrument's performance and stability. Example data was collected on a FACSCAN (Becton, Dickinson; San Jose, CA).

**DIRECTIONS FOR USE:** The microspheres are provided in a convenient dropper tip vial for dispensing the sample. The suspensions should be mixed by gentle inversion by hand or vortex mixer to ensure that the particles are completely suspended before use. Addition of 1-2 drops to approximately 1 mL of buffer or sheath fluid will usually be sufficient to produce acceptable results.

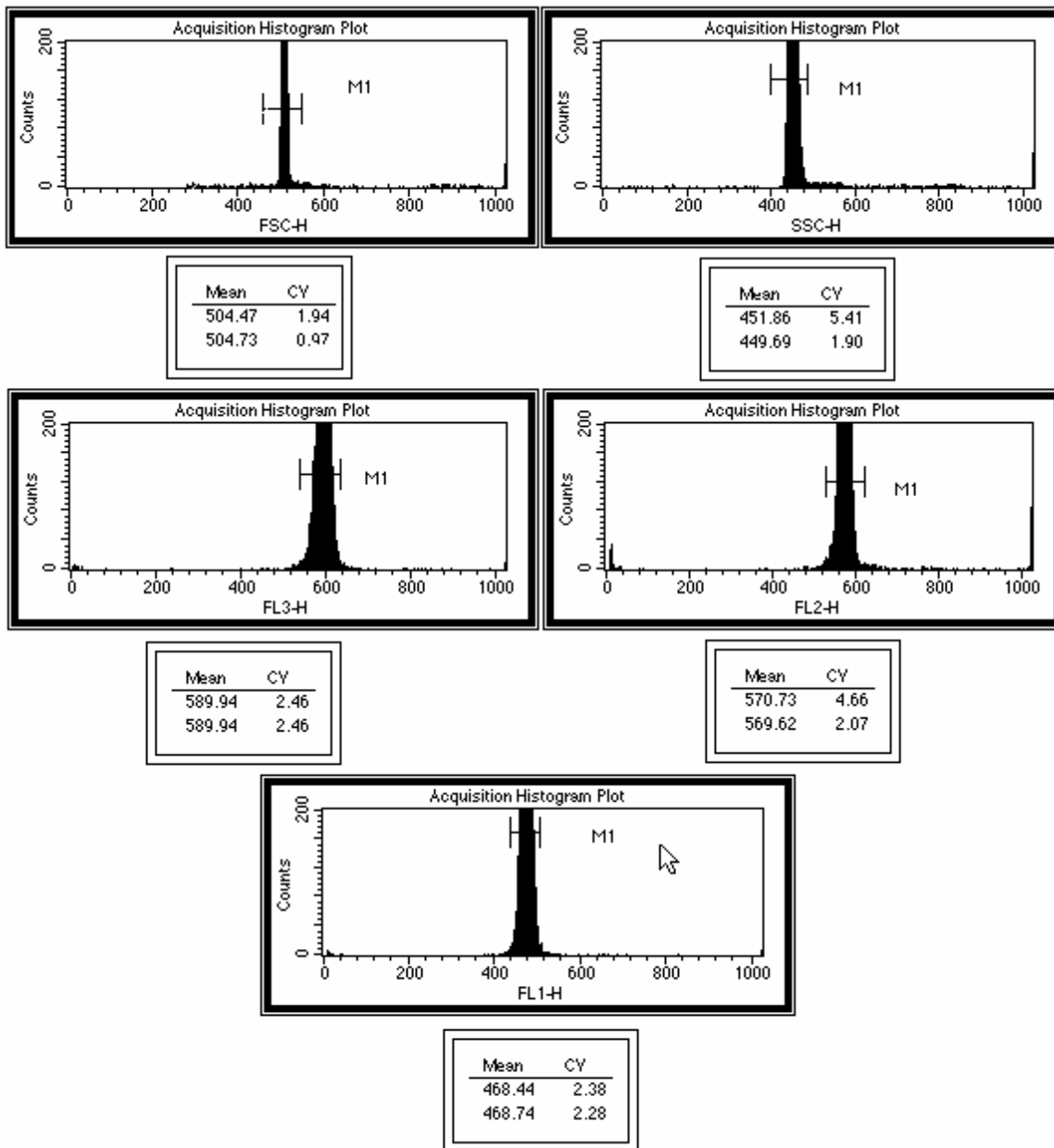
**EXPIRATION:** The expiration date is on the label. This product should not be used past its expiration date.

**LIMITED WARRANTY:** These products are intended for laboratory use by trained scientific personnel. Determination of their suitability for a specific end-use is the responsibility of the user, who assumes all liability for loss or damage arising out of the use of the product. Rebottling or relabeling voids the warranty and certification. Microgenics Corporation's warranty is limited to replacement of defective products if returned with our authorization within 60 days of purchase date.

THE FOREGOING WARRANTY SHALL BE IN LIEU OF ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT SHALL MICROGENICS BE LIABLE FOR INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES.

**NOTE: THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT FOR DIAGNOSTIC USE. NOT TO BE USED FOR MAKING MEDICAL DECISIONS.**

**Example Data for Cyto-Cal 488 Alignment Standard**



Typical histogram data from alignment of a FACSCAN flow cytometer with Cyto-Cal 488 Alignment Standard. Three channels (FL1, FL2 and FL3) are aligned using the same microspheres. Other instruments may exhibit different low-end discrimination. The microspheres are very uniform in size, resulting in a coefficient of variation of fluorescence that is 2%. Data obtained on a FACSCAN. Becton, Dickinson and Co., San Jose, CA