VisionBeads

rev.02/25

CAT#: TCB-VB001-1, TCB-VB001-2

AMOUNT: 1.2 mL, 3.6 mL

STORAGE: 4℃, Light sensitive

SHIPPING: RT

DESCRIPTION:
VisionBeads™ serve as an essential control to evaluate the performance of the VisionSort™ instrument in morphometric analysis. It is recommended to run Vision Beads™ daily to assess the classification performance of supervised machine learning (SVM) and the appearance of UMAP plots. Successfully passing these tests means that the instrument is operating normally and ensures the reliability of your morphometric analysis results.

These 20 μm beads are designed to provide optimal separation in forward scatter, backward scatter, diffractive, and bright field ghost motion imaging (fsGMI, bsGMI, dGMI, and bfGMI). The bottle contains a mixture of fluorescent marker labeled and unlabeled beads.

INSTRUCTIONS FOR USE:

- Resuspend the beads by vortexing the vial on high for 10-20 seconds until homogenous before use.
- Prepare a working solution by diluting **120 μL** of Vision beads with **120 μL** of VS Suspension solution.
- Run the beads on VisionSort by adjusting the FL-2 voltage to see both stained and unstained beads.
- Adjust the BSC gain such that BSC_h is ~80-120 mv
- Use the real time monitor to check the real GMI waveforms.
- Acquire 6000 events(3000 events of positive and negative)
- Use 10 minutes backwash before and after the bead run.

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RESULTS DESCRIPTION:

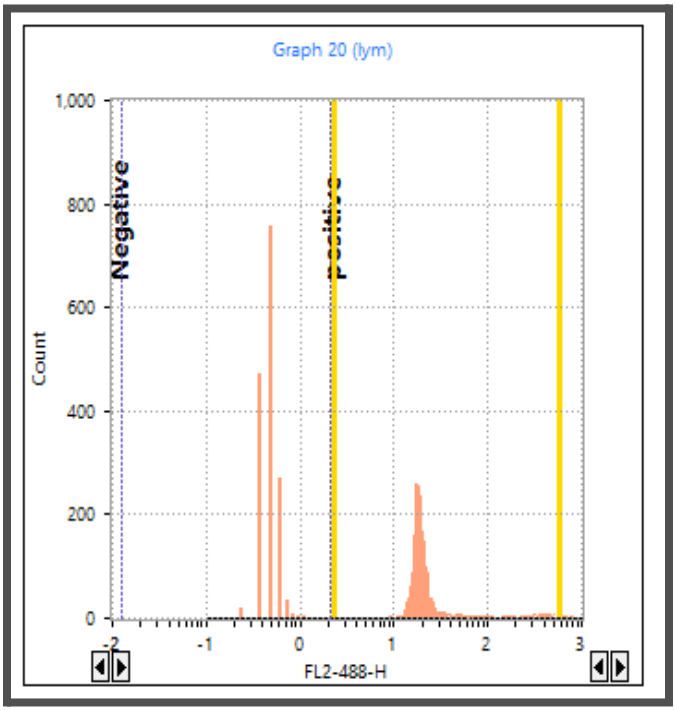

Figure a

Figure a: Shows histogram of VisionBeads, negative and positive population.

Note: Beads should be stored at 4°C. Resuspend the particles by vortexing before use.

FOR MORE INFORMATION REFER VISIONBEADS USER GUIDE AND VISIONSORT INSTRUMENT MANUAL