

Product Information Sheet

Summary and Intended Use

xMAP® Carboxylated Microspheres are internally labeled with fluorescent dyes and contain surface carboxyl groups for covalent coupling of ligands. The products are general use components for further manufacture of xMAP bioassays. For specific use instructions and protocols refer to the system manual provided with your instrumentation.

Product Description

Carboxylated Microspheres are provided in purified water containing merthiolate as a preservative.

Item	Manufacturing Target
Carboxylated Microspheres	1.25×10^7 microspheres/mL
Merthiolate (preservative)	0.01%
Density	1.05 g/mL

Item	Manufacturing Target
Mean microsphere diameter	5.6µm
Functional group	-COOH

Limitations

These instructions must be followed to ensure consistency when using the microspheres. Minimize exposure to light to maintain the integrity of the product. The microspheres are hydrophobic in the aqueous medium provided. The microspheres will settle if left undisturbed and require resuspension prior to dispensing. Do not use this product with strong organic solvents (call Luminex for specific compatibility).

Safety Precautions

Although this product is not known to contain hazardous or carcinogenic components at toxic levels, it may be toxic if inhaled, if it comes in contact with skin, or if swallowed. There may be danger of cumulative effects. Keep away from food, drink, and animal feeding stuffs. If product comes in contact with skin, wash immediately with plenty of water. Wear suitable protective clothing. In case of accident or if you feel unwell, seek medical advice immediately and show this product label or container to your medical provider. Material Safety Data Sheet available upon request.

Handling Instructions

xMAP Carboxylated Microspheres are provided in various configurations. The handling of the product varies with the size of container and the fill volume. Care must be taken to avoid excessive agitation of the product and resultant foaming/surface precipitation. The microspheres will settle if left undisturbed. Always ensure that microspheres are homogeneously resuspended prior to dispensing. The uncoupled microspheres are not monodispersed and tend to aggregate until coated. Multiple pipetting from the original container may affect bead concentrations. Protect the microspheres from light at all times. Follow the resuspension instructions below based on the size of container in use:

For 1 mL volumes in 2mL vials:

Remove from 2-8°C and allow equilibration to room temperature. Centrifuge for 1-2 minutes at 10,000 x g. Sonicate in a water bath sonicator to disperse the microsphere pellet. Mix by gentle vortexing immediately prior to dispensing. Inversion is not recommended.

For 1 mL volumes in 4mL bottles:

Remove from 2-8°C and allow equilibration to room temperature. Place on rotator and gently rotate for 1-2 minutes or mix by gentle inversion immediately prior to dispensing.

For larger volumes:

Remove from 2-8°C and allow equilibration to room temperature. Place on rotator and gently rotate for 1-2 minutes or mix by gentle inversion immediately prior to dispensing. For these containers, vortexing and rocking are not recommended.

Storage

Store product upright at 2-8°C. Store the translucent product containers in the box provided to protect the microspheres from light. Avoid freezing.

Product Numbering / Order Information

xMAP Carboxylated Microspheres are available in the following configurations. The product number on the container label relates to the software target region and contains a suffix representing the product volume. See the following examples:

Product number	Region number	Container size	Volume
L100-C107-01	007	2 ml	1 ml
L100-C107-01	007	4 ml	1 ml
L100-C154-04	054	4 ml	4 ml
L100-C200-16	100	16 ml	16 ml
L100-C200-100	100	125 ml	100 ml

References

21 CFR Part 1910.1200, Hazard communication

Manufactured by:

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 512-219-5195