

**Summary and Intended Use**

Luminex SeroMAP™ Microspheres are polystyrene microspheres internally labeled with fluorescent dyes and contain surface carboxyl groups for covalent coupling of ligands. Varying the concentrations of two internal dyes, 100 different colored Luminex SeroMAP™ Microspheres compatible with the xMAP Bead Maps are created. The products are general use components for further manufacture of xMAP technology based serological bioassays. Luminex SeroMAP™ Microspheres are specifically designed for protein based serological applications where lower non-specific reactivity is desired. This product is not intended for nucleic acid, agglutination or adsorption applications. For specific instructions and protocols refer to the system manual provided with your instrumentation.

**Ingredients**

Luminex SeroMAP™ Microspheres are provided in purified water containing merthiolate as a preservative.

Property	Specification
Concentration	1.25 × 10 <sup>7</sup> microspheres/mL
Preservative	0.01% Merthiolate
Volume	16 mL
Density	1.05 g/mL

Property	Specification
Mode microsphere diameter	5.6µm
Functional group	-COOH
Misclassification rate	≤2%
Classification rate	≥80%

**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. European/International Regulations Safety Phrase: S 29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

Hazard Symbol 

**Limitations**

These instructions must be followed to ensure consistency when using the Luminex SeroMAP™ Microspheres. Minimize exposure to light to maintain the integrity of the product. The Luminex SeroMAP™ Microspheres are formulated from hydrophobic polymers with hydrophilic surface groups to enhance solubility in aqueous media. The Luminex SeroMAP™ Microspheres will settle if left undisturbed and require resuspension prior to dispensing. Do not use this product with organic solvents (call Luminex Technical Support for specific compatibility).

**Product Storage**

Store the container upright in the original shipping box to protect the microspheres from light. Store at 2°C to 8°C. Avoid freezing and heating (> 40°C) in supplied configuration.

**Handling Instructions**

Luminex SeroMAP™ Microspheres are provided in a 16mL size. 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. Some reversible aggregation of the microspheres may be observed in some media prior to coupling reactions. Repetitive pipetting from the original container may affect bead concentrations. Protect the microspheres from light at all times. These microspheres may exhibit some stickiness and this may affect percent yield. The reporter signal may not be directly comparable to xMAP Carboxylated Microspheres.

**Resuspension Instructions**

Remove from 2-8°C and allow equilibration to room temperature. Rotate for a minimum of 15 minutes. Mix by gentle inversion immediately prior to dispensing. Vortexing and rocking are not recommended.

**DD Gating**

For this microsphere product line, the recommended starting DD gate is 8K to 15K. You should optimize your actual DD gating range for your specific application.

**Product Numbering / Order Information**

Luminex SeroMAP™ Microspheres are available in 16mL size only for all 100 regions of the 100 region bead map (001 thru 100). The product number on the container label relates to the software target region. For example:

Product number	Region number
L100-S001-16	001
L100-S059-16	059
L100-S100-16	100

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Luminex web page: [www.luminexcorp.com](http://www.luminexcorp.com)  
Hover over: xMAP Technology  
From menu select: Products  
From menu select: Ordering Information

*For technical support:*  
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