

**Luminex®**

**xMAP™ LumAvidin® Microspheres**

*For Further Manufacture*

## Product Information Sheet

### Summary and Intended Use

xMAP LumAvidin Microspheres are internally labeled with fluorescent dyes and contain surface Avidin groups for near covalent binding to Biotin and Biotinylated ligands. The product is intended for use in further manufacture in assays using xMAP technology. For specific use instructions and protocols refer to the system manual provided with your instrumentation.

### Product Description

LumAvidin Microspheres are provided in a phosphate buffer solution containing BSA, Tween 20™ and sodium azide as a preservative.

Item	Manufacturing Target
LumAvidin® Microspheres	$2.5 \times 10^6$ microspheres/mL
Sodium Azide (preservative)	<0.1%
Microsphere Density	1.05 g/mL
Mean microsphere diameter	5.6µm
Binding capacity	$>1.00 \times 10^6$ biotin binding sites/microsphere
BSA	<0.01%
Tween 20™	<0.02%

### Limitations

These instructions must be followed to ensure consistency when using the microspheres. Minimize exposure to light and heat to maintain the integrity of the product. The microspheres will settle if left undisturbed and require resuspension prior to dispensing. Do not use this product with any organic solvents.

### 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 LumAvidin Microspheres are provided in 1ml volumes. Care must be taken to avoid excessive agitation of the product. The microspheres will settle if left undisturbed. Always ensure that microspheres are homogeneously resuspended prior to dispensing. Multiple pipetting from the original container may affect bead concentrations. Protect the microspheres from light at all times. Follow the resuspension instructions below:

#### For 1 mL containers:

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.

### Storage

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

### Product Numbering / Order Information

xMAP LumAvidin 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
L100-LI07-01	007	1 ml

### References

21 CFR Part 1910.1200, Hazard communication

### Manufactured by:

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