

Luminex



xMAP® Technology

Products and Services Catalog





Microspheres

xMAP® Technology uses color-coded microspheres (“beads”) to test for multiple targets from a single sample. Depending on your xMAP instrument, the application, and your analytes of interest, there are different bead types that can be used to produce the best results.

xMAP® Microspheres

| Application | Microsphere | Type | Regions Available | Concentrations Available (million beads/mL) | Vial Sizes Available |
|--------------|------------------------------|--------------|-------------------|---|----------------------|
| All-Purpose | MagPlex® | Magnetic | 1-500 | 2.5 (10 regions only) & 12.5 | 1 mL, 4 mL, custom* |
| All-Purpose | MicroPlex® | Non-magnetic | 1-100 | 12.5 | 1 mL, 4 mL, 16 mL |
| Nucleic Acid | MagPlex-TAG™ | Magnetic | 1-150† | 2.5 | 1 mL |
| Protein | LumAvidin® | Non-magnetic | 1-100 | 2.5 | 1 mL |
| Protein | MagPlex®-Avidin Microspheres | Magnetic | 1-100‡ | 2.5 | 1 mL |
| Protein | SeroMAP™ | Non-magnetic | 1-100 | 12.5 | 4 mL |

*Please see the MagPlex® Custom Volume Ordering Guidelines online or contact Luminex Sales Support to inquire about custom volume options.

†70 Group C regions are available on a built-to-order basis and may require minimum order quantities and longer lead times. Please contact Luminex Sales Support to learn more before ordering.

‡30 Group A regions are available off-the-shelf. The other 70 regions from Groups A, B, and C are built to order. These additional regions may require minimum order quantities and longer lead times. Please contact Luminex Sales Support to learn more before ordering.

Microsphere Shelf Life: The shelf life of xMAP microspheres is the length of time after manufacturing during which a microsphere should be used for coupling to a capture molecule. Once coupled, microspheres are generally stable for years. However, microsphere stability will vary depending on a variety of customer-defined factors (e.g., molecule coupled, buffer used, storage temperatures, etc.). Luminex recommends that you verify the stability of coupled microspheres in your own lab.

Other Reagents and Accessories

- **Instrument Reagents** - xMAP® instrument reagents include sheath fluid, drive fluid, and instrument calibration and verification kits.
- **Assay Development Reagents** - Reagents such as the xMAP® Antibody Coupling Kit and the MagPlex® Monitoring Microspheres streamline the assay development process.
- **Accessories** - For MagPlex assays, the magnetic plate and tube separators make bead washes fast and easy.
- **Reagent Lead Times** - Most reagents ship within three days of order receipt. However, there are some reagents that are built to order and may require longer than normal lead times. Please contact your Luminex representative to learn more.

For more information, download the xMAP Cookbook at info.luminexcorp.com/en-us/research/download-the-xMAP-cookbook.

MagPlex® Microspheres

MagPlex® Microspheres offer improved washing efficiency, can plex up to 500 targets, and are compatible with all xMAP® instruments. Similar to MicroPlex® Microspheres, MagPlex Microspheres are carboxylated magnetic polystyrene microparticles (“beads”) that have been dyed into spectrally distinct sets (or “regions”) allowing them to be individually identified by an xMAP instrument. These uniquely coded beads provide you with a flexible platform to perform multiple assays in a single well.

All microspheres are general use components for further development of xMAP bioassays. MagPlex Microspheres are available at concentrations of 2.5 million and 12.5 million beads/mL, and can be ordered in 1 mL and 4 mL vial sizes. MagPlex Microspheres are also offered in a variety of custom volumes. Please see the **MagPlex Custom Volume Ordering Guidelines** online or contact Luminex Sales Support to inquire about custom volume options.

MagPlex® Microspheres at a Glance:

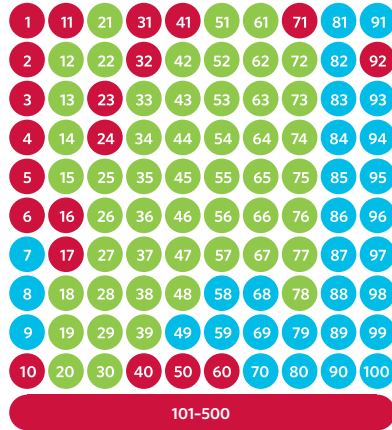
- Surface carboxyl groups
- Superparamagnetic
- 500 regions available
- Compatible with all xMAP instruments
- Multiple concentrations available supporting both small scale and high-throughput applications
- Same reliable coupling chemistry as MicroPlex microspheres
- Dramatically improved washing efficiency
- Ideal for automated applications
- No need for expensive filter plates

| Vial Size | Concentration (millions/mL) | # of Regions Available | Part Number* |
|-----------|-----------------------------|------------------------|--------------|
| 1 mL | 2.5 | 10 | MC100XX-ID |
| 1 mL | 12.5 | 500 | MC1XXXX-01 |
| 4 mL | 12.5 | 80 | MC10XXX-04 |

**Refer to following page for part numbers specific to each microsphere region.*

MagPlex® Microsphere Part Numbers

500 MagPlex® Regions Available



Compatible with:

All xMAP® Instruments

Luminex® 200™, FLEXMAP 3D®, and
xMAP INTELLIFLEX®

FLEXMAP 3D® and xMAP INTELLIFLEX®

Shelf Life: Microspheres within groups A and B will ship with no less than a 6 month shelf life. Microspheres within group C will ship with no less than a 3-month shelf life.

Actual shelf life will vary depending on available inventory. We cannot guarantee a specific shelf life other than the minimums stated here.

Group A (50) All xMAP® Instruments

Available in Low Concentration

| Reg. | Part # | Reg. | Part # |
|------|------------|------|------------|
| 12 | MC10012-YY | 45 | MC10045-YY |
| 13 | MC10013-YY | 46 | MC10046-YY |
| 14 | MC10014-YY | 47 | MC10047-YY |
| 15 | MC10015-YY | 48 | MC10048-YY |
| 18 | MC10018-YY | 51 | MC10051-YY |
| 19 | MC10019-YY | 52 | MC10052-YY |
| 20 | MC10020-YY | 53 | MC10053-YY |
| 21 | MC10021-YY | 54 | MC10054-YY |
| 22 | MC10022-YY | 55 | MC10055-YY |
| 25 | MC10025-YY | 56 | MC10056-YY |
| 26 | MC10026-YY | 57 | MC10057-YY |
| 27 | MC10027-YY | 61 | MC10061-YY |
| 28 | MC10028-YY | 62 | MC10062-YY |
| 29 | MC10029-YY | 63 | MC10063-YY |
| 30 | MC10030-YY | 64 | MC10064-YY |
| 33 | MC10033-YY | 65 | MC10065-YY |
| 34 | MC10034-YY | 66 | MC10066-YY |
| 35 | MC10035-YY | 67 | MC10067-YY |
| 36 | MC10036-YY | 72 | MC10072-YY |
| 37 | MC10037-YY | 73 | MC10073-YY |
| 38 | MC10038-YY | 74 | MC10074-YY |
| 39 | MC10039-YY | 75 | MC10075-YY |
| 42 | MC10042-YY | 76 | MC10076-YY |
| 43 | MC10043-YY | 77 | MC10077-YY |
| 44 | MC10044-YY | 78 | MC10078-YY |

Group B (30)

Luminex® 200™, FLEXMAP 3D®,
and xMAP INTELLIFLEX®

| Reg. | Part # | Reg. | Part # |
|------|------------|------|------------|
| 7 | MC10007-YY | 85 | MC10085-YY |
| 8 | MC10008-YY | 86 | MC10086-YY |
| 9 | MC10009-YY | 87 | MC10087-YY |
| 49 | MC10049-YY | 88 | MC10088-YY |
| 58 | MC10058-YY | 89 | MC10089-YY |
| 59 | MC10059-YY | 90 | MC10090-YY |
| 68 | MC10068-YY | 91 | MC10091-YY |
| 69 | MC10069-YY | 93 | MC10093-YY |
| 70 | MC10070-YY | 94 | MC10094-YY |
| 79 | MC10079-YY | 95 | MC10095-YY |
| 80 | MC10080-YY | 96 | MC10096-YY |
| 81 | MC10081-YY | 97 | MC10097-YY |
| 82 | MC10082-YY | 98 | MC10098-YY |
| 83 | MC10083-YY | 99 | MC10099-YY |
| 84 | MC10084-YY | 100 | MC10100-YY |

Vial Sizes: [-YY] = [-01] for 1 mL, [-04]
for 4 mL, or [-1D] for 1 mL low
concentration.

Group C (420)* FLEXMAP 3D® and xMAP INTELLIFLEX®

| Reg. | Part Number |
|------|-------------|
| 1 | MC12001-01 |
| 2 | MC12002-01 |
| 3 | MC12003-01 |
| 4 | MC12004-01 |
| 5 | MC12005-01 |
| 6 | MC12006-01 |
| 10 | MC12010-01 |
| 11 | MC12011-01 |
| 16 | MC12016-01 |
| 17 | MC12017-01 |
| 23 | MC12023-01 |
| 24 | MC12024-01 |
| 31 | MC12031-01 |
| 32 | MC12032-01 |
| 40 | MC12040-01 |
| 41 | MC12041-01 |
| 50 | MC12050-01 |
| 60 | MC12060-01 |
| 71 | MC12071-01 |
| 92 | MC12092-01 |
| 101+ | MC10XXX-01 |

[XXX] = region # >100

NOTE: Group C regions are only available in 1 mL vial sizes. Contact Luminex Sales Support to inquire about custom fill options.

NOTE: Group C regions <100 have MC12XXX catalog numbers.

MagPlex-TAG™ Microspheres

MagPlex-TAG™ Microspheres are oligonucleotide-coupled magnetic polystyrene microparticles (“beads”) that have been dyed into spectrally distinct sets (or “regions”), allowing them to be individually identified by an xMAP® instrument.

Each one of the color-coded beads has a unique 24 base DNA sequence called an “anti-TAG” covalently coupled to its surface. These beads enable you to quickly and easily design custom bead arrays simply by adding a complementary “TAG” sequence to the primer or probes in your assay and hybridizing those TAGs to the anti-TAG sequence on the corresponding microsphere.

For a complete list of the TAG and anti-TAG sequences for each of the 150 available microspheres, visit luminexcorp.com/MagPlex-TAG-microspheres/.

The MagPlex-MixTAG₈₀ product is a mixture of 80 (Group A & B) MagPlex-TAG Microsphere regions. This product is intended to facilitate the development of nucleic acid arrays with 80 targets or fewer. As each microsphere only reacts to nucleotides strands containing their specific complementary TAG sequence, unused regions in assays of less than 80 targets will not be detected by the instrument and will be excluded in the resulting data set.

MagPlex-MixTAG₈₀ is intended for Luminex® 200™ and FLEXMAP 3D® instruments running xPONENT® Software and xMAP INTELLIFLEX® running xMAP INTELLIFLEX® Software only. Although the microsphere mixture can be used with the MAGPIX® instrument, MAGPIX will only detect 50 of the 80 regions in the mixture.

MagPlex-TAG™ Microspheres at a Glance:

- 150 unique 24-mer surface anti-TAG DNA sequences
- 150 regions available (each with unique anti-TAG)*
- Compatible with all xMAP instruments
- 2.5 million beads/mL
- Proven xTAG® Technology
- Improved washing efficiency
- Ideal for automated applications
- No need for expensive filter plates or oligo coupling
- Convenient 2.5 million bead/mL concentration for improved handling

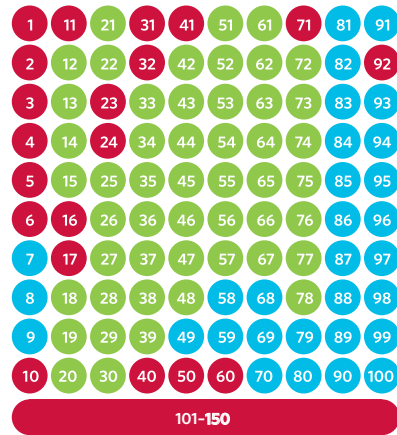
| Vial Size | Concentration (millions/mL) | # of Regions Available | Part Number* |
|-----------|-----------------------------|------------------------|---------------|
| 1 mL | 2.5 | 150 | MTAG-XXXX |
| 2 mL | 2.5 (per region) | 80 (mixed) | MTAG-MIX80-02 |

**Refer to following page for part numbers specific to each microsphere region.*

*MagPlex-TAG Group C regions are built to order. Please contact your Luminex representative to inquire about minimum order requirements and lead times for these regions.

MagPlex-TAG™ Microsphere Part Numbers

150 MagPlex TAG™ Regions Available



Compatible with:

All xMAP® Instruments

Luminex® 200™, FLEXMAP 3D®, and
xMAP INTELLIFLEX®

FLEXMAP 3D® and xMAP INTELLIFLEX®

Shelf Life: Microspheres within Groups A and B will ship with no less than a 6-month shelf life. Microspheres within Group C will ship with no less than a 3-month shelf life.

Actual shelf life will vary depending on available inventory. We cannot guarantee a specific shelf life other than the minimums stated here.

Contact Luminex Sales Support to inquire about custom fill options.

Refer to product webpage at www.luminexcorp.com for the anti-TAG sequences of each region.

*MagPlex-TAG™ Group C regions are built to order. Please contact your Luminex representative to inquire about minimum order requirements and lead times for these regions.

Group A (50) All xMAP® Instruments

| Reg. | Part # | Reg. | Part # |
|------|-----------|------|-----------|
| 12 | MTAG-A012 | 45 | MTAG-A045 |
| 13 | MTAG-A013 | 46 | MTAG-A046 |
| 14 | MTAG-A014 | 47 | MTAG-A047 |
| 15 | MTAG-A015 | 48 | MTAG-A048 |
| 18 | MTAG-A018 | 51 | MTAG-A051 |
| 19 | MTAG-A019 | 52 | MTAG-A052 |
| 20 | MTAG-A020 | 53 | MTAG-A053 |
| 21 | MTAG-A021 | 54 | MTAG-A054 |
| 22 | MTAG-A022 | 55 | MTAG-A055 |
| 25 | MTAG-A025 | 56 | MTAG-A056 |
| 26 | MTAG-A026 | 57 | MTAG-A057 |
| 27 | MTAG-A027 | 61 | MTAG-A061 |
| 28 | MTAG-A028 | 62 | MTAG-A062 |
| 29 | MTAG-A029 | 63 | MTAG-A063 |
| 30 | MTAG-A030 | 64 | MTAG-A064 |
| 33 | MTAG-A033 | 65 | MTAG-A065 |
| 34 | MTAG-A034 | 66 | MTAG-A066 |
| 35 | MTAG-A035 | 67 | MTAG-A067 |
| 36 | MTAG-A036 | 72 | MTAG-A072 |
| 37 | MTAG-A037 | 73 | MTAG-A073 |
| 38 | MTAG-A038 | 74 | MTAG-A074 |
| 39 | MTAG-A039 | 75 | MTAG-A075 |
| 42 | MTAG-A042 | 76 | MTAG-A076 |
| 43 | MTAG-A043 | 77 | MTAG-A077 |
| 44 | MTAG-A044 | 78 | MTAG-A078 |

Group B (30) Luminex® 200™, FLEXMAP 3D®, and xMAP INTELLIFLEX®

| Reg. | Part # | Reg. | Part # |
|------|-----------|------|-----------|
| 7 | MTAG-B007 | 85 | MTAG-B085 |
| 8 | MTAG-B008 | 86 | MTAG-B086 |
| 9 | MTAG-B009 | 87 | MTAG-B087 |
| 49 | MTAG-B049 | 88 | MTAG-B088 |
| 58 | MTAG-B058 | 89 | MTAG-B089 |
| 59 | MTAG-B059 | 90 | MTAG-B090 |
| 68 | MTAG-B068 | 91 | MTAG-B091 |
| 69 | MTAG-B069 | 93 | MTAG-B093 |
| 70 | MTAG-B070 | 94 | MTAG-B094 |
| 79 | MTAG-B079 | 95 | MTAG-B095 |
| 80 | MTAG-B080 | 96 | MTAG-B096 |
| 81 | MTAG-B081 | 97 | MTAG-B097 |
| 82 | MTAG-B082 | 98 | MTAG-B098 |
| 83 | MTAG-B083 | 99 | MTAG-B099 |
| 84 | MTAG-B084 | 100 | MTAG-B100 |

Available in 1 mL vial sizes only.

Group C (70)* FLEXMAP 3D® and xMAP INTELLIFLEX®

| Reg. | Part Number |
|------|-------------|
| 1 | MTAG-C001 |
| 2 | MTAG-C002 |
| 3 | MTAG-C003 |
| 4 | MTAG-C004 |
| 5 | MTAG-C005 |
| 6 | MTAG-C006 |
| 10 | MTAG-C010 |
| 11 | MTAG-C011 |
| 16 | MTAG-C016 |
| 17 | MTAG-C017 |
| 23 | MTAG-C023 |
| 24 | MTAG-C024 |
| 31 | MTAG-C031 |
| 32 | MTAG-C032 |
| 40 | MTAG-C040 |
| 41 | MTAG-C041 |
| 50 | MTAG-C050 |
| 60 | MTAG-C060 |
| 71 | MTAG-C071 |
| 92 | MTAG-C092 |
| 101+ | MTAG-CXXX |

[XXX] = region # >100

MagPlex®-Avidin Microspheres

MagPlex®-Avidin Microspheres are avidin-coupled magnetic microparticles (“beads”) that have been color-coded into 100 spectrally distinct sets, or “regions.” Similar to an avidin-coated ELISA plate, when reacted with a biotinylated ligand such as a peptide, each of these beads can be used as the substrate on which an assay can be performed. Because each of the beads is uniquely color-coded, they can be quickly distinguished by an xMAP® instrument, allowing for the interrogation of up to 100 different analytes simultaneously from a single sample.

All microspheres are general use components for further manufacture of xMAP bioassays. MagPlex-Avidin Microspheres are available at a concentration of 2.5 million beads/mL and can be ordered in 1 mL vial sizes. Please contact Luminex Sales Support to inquire about custom options.

MagPlex®-Avidin Microspheres at a Glance:

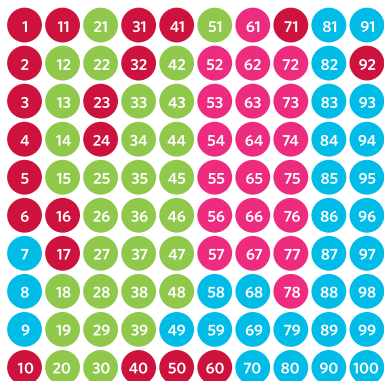
- Avidin protein-coated surface
- 100 regions available
- Compatible with all xMAP instruments
- 2.5 million beads/mL
- Near-covalent biotin-binding chemistry
- Ideal for coupling small molecules, like biotinylated peptides
- Suitable for protein and immunogenicity applications
- Superparamagnetic
- No need for expensive filter plates

| Vial Size | Concentration (millions/mL) | # of Regions Available | Part Number* |
|-----------|-----------------------------|------------------------|--|
| 1 mL | 2.5 | 100 | MA-AXXX-01 MA-BXXX-01 MA-CXXX-01 |

**Refer to following page for part numbers specific to each microsphere region.*

MagPlex®-Avidin Microspheres Part Numbers

100 MagPlex®-Avidin Regions Available



Compatible with:

All xMAP® Instruments

Luminex® 200™, FLEXMAP 3D®, and
xMAP INTELLIFLEX®

FLEXMAP 3D® and xMAP INTELLIFLEX®

Shelf Life: All MagPlex®-Avidin Microspheres will ship with no less than a 3-month shelf life.

Actual shelf life will vary depending on available inventory. We cannot guarantee a specific shelf life other than the minimums stated here.

Group A (30) All xMAP® Instruments

Immediate Ordering

| Reg. | Part # |
|------|------------|
| 12 | MA-A012-01 |
| 13 | MA-A013-01 |
| 14 | MA-A014-01 |
| 15 | MA-A015-01 |
| 18 | MA-A018-01 |
| 19 | MA-A019-01 |
| 20 | MA-A020-01 |
| 21 | MA-A021-01 |
| 22 | MA-A022-01 |
| 25 | MA-A025-01 |
| 26 | MA-A026-01 |
| 27 | MA-A027-01 |
| 28 | MA-A028-01 |
| 29 | MA-A029-01 |
| 30 | MA-A030-01 |
| 33 | MA-A033-01 |
| 34 | MA-A034-01 |
| 35 | MA-A035-01 |
| 36 | MA-A036-01 |
| 37 | MA-A037-01 |
| 38 | MA-A038-01 |
| 39 | MA-A039-01 |
| 42 | MA-A042-01 |
| 43 | MA-A043-01 |
| 44 | MA-A044-01 |
| 45 | MA-A045-01 |
| 46 | MA-A046-01 |
| 47 | MA-A047-01 |
| 48 | MA-A048-01 |
| 51 | MA-A051-01 |

Group A (20)* All xMAP® Instruments

Built-to-Order Only

| Reg. | Part # |
|------|------------|
| 52 | MA-A052-01 |
| 53 | MA-A053-01 |
| 54 | MA-A054-01 |
| 55 | MA-A055-01 |
| 56 | MA-A056-01 |
| 57 | MA-A057-01 |
| 61 | MA-A061-01 |
| 62 | MA-A062-01 |
| 63 | MA-A063-01 |
| 64 | MA-A064-01 |
| 65 | MA-A065-01 |
| 66 | MA-A066-01 |
| 67 | MA-A067-01 |
| 72 | MA-A072-01 |
| 73 | MA-A073-01 |
| 74 | MA-A074-01 |
| 75 | MA-A075-01 |
| 76 | MA-A076-01 |
| 77 | MA-A077-01 |
| 78 | MA-A078-01 |

Group B (30)* Luminex® 200™, FLEXMAP 3D®, and xMAP INTELLIFLEX®

Built-to-Order Only

| Reg. | Part # | Reg. | Part # |
|------|------------|------|------------|
| 7 | MA-B007-01 | 85 | MA-B085-01 |
| 8 | MA-B008-01 | 86 | MA-B086-01 |
| 9 | MA-B009-01 | 87 | MA-B087-01 |
| 49 | MA-B049-01 | 88 | MA-B088-01 |
| 58 | MA-B058-01 | 89 | MA-B089-01 |
| 59 | MA-B059-01 | 90 | MA-B090-01 |
| 68 | MA-B068-01 | 91 | MA-B091-01 |
| 69 | MA-B069-01 | 93 | MA-B093-01 |
| 70 | MA-B070-01 | 94 | MA-B094-01 |
| 79 | MA-B079-01 | 95 | MA-B095-01 |
| 80 | MA-B080-01 | 96 | MA-B096-01 |
| 81 | MA-B081-01 | 97 | MA-B097-01 |
| 82 | MA-B082-01 | 98 | MA-B098-01 |
| 83 | MA-B083-01 | 99 | MA-B099-01 |
| 84 | MA-B084-01 | 100 | MA-B100-01 |

Group C (30)* FLEXMAP 3D® and xMAP INTELLIFLEX®

Built-to-Order Only

| Reg. | Part Number |
|------|-------------|
| 1 | MA-C001-01 |
| 2 | MA-C002-01 |
| 3 | MA-C003-01 |
| 4 | MA-C004-01 |
| 5 | MA-C005-01 |
| 6 | MA-C006-01 |
| 10 | MA-C010-01 |
| 11 | MA-C011-01 |
| 16 | MA-C016-01 |
| 17 | MA-C017-01 |
| 23 | MA-C023-01 |
| 24 | MA-C024-01 |
| 31 | MA-C031-01 |
| 32 | MA-C032-01 |
| 40 | MA-C040-01 |
| 41 | MA-C041-01 |
| 50 | MA-C050-01 |
| 60 | MA-C060-01 |
| 71 | MA-C071-01 |
| 92 | MA-C092-01 |

Only available in
1 mL vial sizes.

*Please contact your Luminex representative to inquire about minimum order requirements and lead times for built-to-order regions.

MagPlex® Monitoring Microspheres

MagPlex® Monitoring Microspheres are magnetic polystyrene beads that aid in monitoring assay and instrument performance. MagPlex Monitoring Microspheres provide insight into factors impacting target median fluorescent intensity (MFI) values, including instrument fluctuations or user error.

MagPlex Monitoring Microspheres are available in two formats. MagPlex RP1 Monitor beads produce fluorescence detected in region 45 and the RP1 channel of all xMAP® instruments, and MagPlex RP2 Monitor beads produce fluorescence detected in region 222 and the RP2 channel of the xMAP INTELLIFLEX® DR-SE System.

All microspheres are general use components for further manufacture of xMAP bioassays. MagPlex Monitoring Microspheres are available at a concentration of 12.5 million beads/mL and can be ordered in 1 mL vial sizes. Please contact Luminex Sales Support to inquire about custom vial sizes.

MagPlex® Monitoring Microspheres at a Glance:

- Superparamagnetic
- MagPlex RP1 Monitor Beads are compatible with all xMAP instruments
- MagPlex RP2 Monitor Beads are compatible with new violet channel on xMAP INTELLIFLEX DR-SE
- Available at the same concentration as region beads (12.5 million beads/mL)
- Well-to-well assay performance monitoring
- Compatible with proteomic and genomic applications
- Eliminate instrument or user errors as source of unexpected results

| Product Name | Vial Size | Concentration (millions/mL) | Part Number |
|----------------------|-----------|-----------------------------|-------------|
| MagPlex® RP1 Monitor | 1 mL | 12.5 | MRP1-045-01 |
| MagPlex® RP2 Monitor | 1 mL | 12.5 | MRP2-222-01 |

Shelf Life: MagPlex Monitoring Microspheres will ship with no less than a 3-month shelf life.

Actual shelf life will depend on available inventory. We cannot guarantee a specific shelf life other than the minimums stated here.

MicroPlex® Microspheres



MicroPlex® Microspheres are carboxylated polystyrene microparticles (“beads”) that have been color-coded into 100 spectrally distinct sets, or “regions.”

Each of these bead regions can be quickly distinguished by an xMAP® instrument, allowing for the interrogation of up to 100 different analytes simultaneously from a single sample.

All microspheres are general use components for further manufacture of xMAP bioassays. MicroPlex Microspheres are available at a concentration of 12.5 million beads/mL and can be ordered in 1 mL, 4 mL, and 16 mL vial sizes. Please contact Luminex Sales Support to inquire about custom volume options.

MicroPlex® Microspheres at a Glance:

- Surface carboxyl groups
- 100 regions available
- Compatible with Luminex® 200™, FLEXMAP 3D®, and xMAP INTELLIFLEX®
- Multiple vial sizes available supporting both small scale and higher-throughput applications.
- 12.5 million beads/mL
- Suitable for both protein and nucleic acid applications

| Vial Size | Concentration (million/mL) | # of Regions Available | Part Number* |
|-----------|----------------------------|------------------------|--------------|
| 1 mL | 12.5 | 100 | LC10XXX-01 |
| 4 mL | 12.5 | 100 | LC10XXX-04 |
| 16 mL | 12.5 | 100 | LC10XXX-16 |

IMPORTANT: MicroPlex® Microspheres are not compatible with the MAGPIX® instrument.

**Refer to following page for part numbers specific to each microsphere region.*

MicroPlex® Microsphere Part Numbers

100 MicroPlex® Regions Available

| | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|-----|
| 1 | 11 | 21 | 31 | 41 | 51 | 61 | 71 | 81 | 91 |
| 2 | 12 | 22 | 32 | 42 | 52 | 62 | 72 | 82 | 92 |
| 3 | 13 | 23 | 33 | 43 | 53 | 63 | 73 | 83 | 93 |
| 4 | 14 | 24 | 34 | 44 | 54 | 64 | 74 | 84 | 94 |
| 5 | 15 | 25 | 35 | 45 | 55 | 65 | 75 | 85 | 95 |
| 6 | 16 | 26 | 36 | 46 | 56 | 66 | 76 | 86 | 96 |
| 7 | 17 | 27 | 37 | 47 | 57 | 67 | 77 | 87 | 97 |
| 8 | 18 | 28 | 38 | 48 | 58 | 68 | 78 | 88 | 98 |
| 9 | 19 | 29 | 39 | 49 | 59 | 69 | 79 | 89 | 99 |
| 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |

Compatible with:

Luminex® 200™, FLEXMAP 3D®, and xMAP INTELLIFLEX®

Shelf Life: All MicroPlex® Microspheres will ship with no less than a 6-month shelf life.

Actual shelf life will vary depending on available inventory. We cannot guarantee a specific shelf life other than the minimums stated here.

| Reg. | Part Number |
|------|-------------|
| 1 | LC10001-YY |
| 2 | LC10002-YY |
| 3 | LC10003-YY |
| 4 | LC10004-YY |
| 5 | LC10005-YY |
| 6 | LC10006-YY |
| 7 | LC10007-YY |
| 8 | LC10008-YY |
| 9 | LC10009-YY |
| 10 | LC10010-YY |
| 11 | LC10011-YY |
| 12 | LC10012-YY |
| 13 | LC10013-YY |
| 14 | LC10014-YY |
| 15 | LC10015-YY |
| 16 | LC10016-YY |
| 17 | LC10017-YY |
| 18 | LC10018-YY |
| 19 | LC10019-YY |
| 20 | LC10020-YY |
| 21 | LC10021-YY |

| Reg. | Part Number |
|------|-------------|
| 22 | LC10022-YY |
| 23 | LC10023-YY |
| 24 | LC10024-YY |
| 25 | LC10025-YY |
| 26 | LC10026-YY |
| 27 | LC10027-YY |
| 28 | LC10028-YY |
| 29 | LC10029-YY |
| 30 | LC10030-YY |
| 31 | LC10031-YY |
| 32 | LC10032-YY |
| 33 | LC10033-YY |
| 34 | LC10034-YY |
| 35 | LC10035-YY |
| 36 | LC10036-YY |
| 37 | LC10037-YY |
| 38 | LC10038-YY |
| 39 | LC10039-YY |
| 40 | LC10040-YY |
| 41 | LC10041-YY |
| 42 | LC10042-YY |

| Reg. | Part Number |
|------|-------------|
| 43 | LC10043-YY |
| 44 | LC10044-YY |
| 45 | LC10045-YY |
| 46 | LC10046-YY |
| 47 | LC10047-YY |
| 48 | LC10048-YY |
| 49 | LC10049-YY |
| 50 | LC10050-YY |
| 51 | LC10051-YY |
| 52 | LC10052-YY |
| 53 | LC10053-YY |
| 54 | LC10054-YY |
| 55 | LC10055-YY |
| 56 | LC10056-YY |
| 57 | LC10057-YY |
| 58 | LC10058-YY |
| 59 | LC10059-YY |
| 60 | LC10060-YY |
| 61 | LC10061-YY |
| 62 | LC10062-YY |
| 63 | LC10063-YY |

| Reg. | Part Number |
|------|-------------|
| 64 | LC10064-YY |
| 65 | LC10065-YY |
| 66 | LC10066-YY |
| 67 | LC10067-YY |
| 68 | LC10068-YY |
| 69 | LC10069-YY |
| 70 | LC10070-YY |
| 71 | LC10071-YY |
| 72 | LC10072-YY |
| 73 | LC10073-YY |
| 74 | LC10074-YY |
| 75 | LC10075-YY |
| 76 | LC10076-YY |
| 77 | LC10077-YY |
| 78 | LC10078-YY |
| 79 | LC10079-YY |
| 80 | LC10080-YY |
| 81 | LC10081-YY |
| 82 | LC10082-YY |
| 83 | LC10083-YY |
| 84 | LC10084-YY |

| Reg. | Part Number |
|------|-------------|
| 85 | LC10085-YY |
| 86 | LC10086-YY |
| 87 | LC10087-YY |
| 88 | LC10088-YY |
| 89 | LC10089-YY |
| 90 | LC10090-YY |
| 91 | LC10091-YY |
| 92 | LC10092-YY |
| 93 | LC10093-YY |
| 94 | LC10094-YY |
| 95 | LC10095-YY |
| 96 | LC10096-YY |
| 97 | LC10097-YY |
| 98 | LC10098-YY |
| 99 | LC10099-YY |
| 100 | LC10100-YY |

Vial Sizes:

[-YY] = [-01] for 1 mL;
[-04] for 4 mL; or
[-16] for 16 mL

LumAvidin® Microspheres



LumAvidin® Microspheres are avidin-coupled polystyrene microparticles (“beads”) that have been color-coded into 100 spectrally distinct sets, or “regions.” Similar to an avidin-coated ELISA plate, when reacted with a biotinylated ligand such as a peptide, each of these beads can be used as the substrate on which an assay can be performed. Because each of the beads is uniquely color-coded, they can be quickly distinguished by an xMAP® instrument, allowing for the interrogation of up to 100 different analytes simultaneously from a single sample.

All microspheres are general use components for further manufacture of xMAP bioassays. LumAvidin Microspheres are available at a concentration of 2.5 million beads/mL and can be ordered in 1 mL vial sizes. Custom vial sizes are available for LumAvidin Microspheres. Please contact Luminex Sales Support to inquire about custom vial sizes.

LumAvidin® Microspheres at a Glance:

- Avidin protein-coated surface
- 100 regions available
- Compatible with Luminex® 200™, FLEXMAP 3D®, and xMAP INTELLIFLEX®
- 1 mL vial size
- 2.5 million beads/mL
- Near-covalent biotin-binding chemistry
- Ideal for coupling small molecules, like biotinylated peptides
- Suitable for protein and immunogenicity applications
- No need to couple avidin to beads

| Vial Size | Concentration (millions/mL) | # of Regions Available | Part Number* |
|-----------|-----------------------------|------------------------|--------------|
| 1 mL | 2.5 | 100 | L100-LXXX-01 |

IMPORTANT: LumAvidin® Microspheres are not compatible with the MAGPIX® instrument.

**Refer to following page for part numbers specific to each microsphere region.*

LumAvidin® Microspheres Part Numbers

100 LumAvidin® Regions Available

| | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|-----|
| 1 | 11 | 21 | 31 | 41 | 51 | 61 | 71 | 81 | 91 |
| 2 | 12 | 22 | 32 | 42 | 52 | 62 | 72 | 82 | 92 |
| 3 | 13 | 23 | 33 | 43 | 53 | 63 | 73 | 83 | 93 |
| 4 | 14 | 24 | 34 | 44 | 54 | 64 | 74 | 84 | 94 |
| 5 | 15 | 25 | 35 | 45 | 55 | 65 | 75 | 85 | 95 |
| 6 | 16 | 26 | 36 | 46 | 56 | 66 | 76 | 86 | 96 |
| 7 | 17 | 27 | 37 | 47 | 57 | 67 | 77 | 87 | 97 |
| 8 | 18 | 28 | 38 | 48 | 58 | 68 | 78 | 88 | 98 |
| 9 | 19 | 29 | 39 | 49 | 59 | 69 | 79 | 89 | 99 |
| 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |

Compatible with:

Luminex® 200™, FLEXMAP 3D®, and xMAP INTELLIFLEX®

Shelf Life: All LumAvidin® Microspheres will ship with no less than a 3-month shelf life.

Actual shelf life will vary depending on available inventory. We cannot guarantee a specific shelf life other than the minimums stated here.

| Reg. | Part Number | Reg. | Part Number | Reg. | Part Number | Reg. | Part Number | Reg. | Part Number |
|------|--------------|------|--------------|------|--------------|------|--------------|------|--------------|
| 1 | L100-L101-01 | 22 | L100-L122-01 | 43 | L100-L143-01 | 64 | L100-L164-01 | 85 | L100-L185-01 |
| 2 | L100-L102-01 | 23 | L100-L123-01 | 44 | L100-L144-01 | 65 | L100-L165-01 | 86 | L100-L186-01 |
| 3 | L100-L103-01 | 24 | L100-L124-01 | 45 | L100-L145-01 | 66 | L100-L166-01 | 87 | L100-L187-01 |
| 4 | L100-L104-01 | 25 | L100-L125-01 | 46 | L100-L146-01 | 67 | L100-L167-01 | 88 | L100-L188-01 |
| 5 | L100-L105-01 | 26 | L100-L126-01 | 47 | L100-L147-01 | 68 | L100-L168-01 | 89 | L100-L189-01 |
| 6 | L100-L106-01 | 27 | L100-L127-01 | 48 | L100-L148-01 | 69 | L100-L169-01 | 90 | L100-L190-01 |
| 7 | L100-L107-01 | 28 | L100-L128-01 | 49 | L100-L149-01 | 70 | L100-L170-01 | 91 | L100-L191-01 |
| 8 | L100-L108-01 | 29 | L100-L129-01 | 50 | L100-L150-01 | 71 | L100-L171-01 | 92 | L100-L192-01 |
| 9 | L100-L109-01 | 30 | L100-L130-01 | 51 | L100-L151-01 | 72 | L100-L172-01 | 93 | L100-L193-01 |
| 10 | L100-L110-01 | 31 | L100-L131-01 | 52 | L100-L152-01 | 73 | L100-L173-01 | 94 | L100-L194-01 |
| 11 | L100-L111-01 | 32 | L100-L132-01 | 53 | L100-L153-01 | 74 | L100-L174-01 | 95 | L100-L195-01 |
| 12 | L100-L112-01 | 33 | L100-L133-01 | 54 | L100-L154-01 | 75 | L100-L175-01 | 96 | L100-L196-01 |
| 13 | L100-L113-01 | 34 | L100-L134-01 | 55 | L100-L155-01 | 76 | L100-L176-01 | 97 | L100-L197-01 |
| 14 | L100-L114-01 | 35 | L100-L135-01 | 56 | L100-L156-01 | 77 | L100-L177-01 | 98 | L100-L198-01 |
| 15 | L100-L115-01 | 36 | L100-L136-01 | 57 | L100-L157-01 | 78 | L100-L178-01 | 99 | L100-L199-01 |
| 16 | L100-L116-01 | 37 | L100-L137-01 | 58 | L100-L158-01 | 79 | L100-L179-01 | 100 | L100-L200-01 |
| 17 | L100-L117-01 | 38 | L100-L138-01 | 59 | L100-L159-01 | 80 | L100-L180-01 | | |
| 18 | L100-L118-01 | 39 | L100-L139-01 | 60 | L100-L160-01 | 81 | L100-L181-01 | | |
| 19 | L100-L119-01 | 40 | L100-L140-01 | 61 | L100-L161-01 | 82 | L100-L182-01 | | |
| 20 | L100-L120-01 | 41 | L100-L141-01 | 62 | L100-L162-01 | 83 | L100-L183-01 | | |
| 21 | L100-L121-01 | 42 | L100-L142-01 | 63 | L100-L163-01 | 84 | L100-L184-01 | | |

Only available in 1 mL vial sizes.

Contact Luminex Sales Support to inquire about custom fill options and lead times.

SeroMAP™ Microspheres



SeroMAP™ Microspheres are a special formulation of MicroPlex® Microspheres which have been optimized to reduce non-specific binding in serology assays. These beads are carboxylated polystyrene microparticles that have been color-coded into 100 spectrally distinct sets, or “regions.” Each of these regions can be quickly distinguished by an xMAP® instrument, allowing for the interrogation of up to 100 different analytes simultaneously from a single sample.

All microspheres are general use components for further manufacture of xMAP bioassays. SeroMAP Microspheres are available at a concentration of 12.5 million beads/mL and are only available in a 4 mL vial size. Please contact Luminex Sales Support to inquire about custom vial sizes.

SeroMAP™ Microspheres at a Glance:

- Specifically designed for protein-based serological applications
- 100 regions available
- Compatible with Luminex® 200™, FLEXMAP 3D®, and xMAP INTELLIFLEX®
- 4 mL vial size only
- 12.5 million beads/mL
- Lower non-specific binding

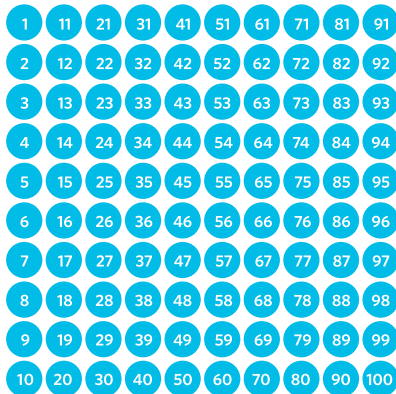
| Vial Size | Concentration (millions/mL) | # of Regions Available | Part Number* |
|-----------|-----------------------------|------------------------|--------------|
| 4 mL | 12.5 | 100 | L100-SXXX-04 |

IMPORTANT: SeroMAP™ Microspheres are not compatible with the MAGPIX® instrument.

*Refer to following page for part numbers specific to each microsphere region.

SeroMAP™ Microspheres Part Numbers

100 SeroMAP™ Regions Available



Compatible with:

Luminex® 200™, FLEXMAP 3D®, and xMAP INTELLIFLEX®

Shelf Life: All SeroMAP™ Microspheres will ship with no less than a 6-month shelf life.

Actual shelf life will vary depending on available inventory. We cannot guarantee a specific shelf life other than the minimums stated here.

| Reg. | Part Number | Reg. | Part Number | Reg. | Part Number | Reg. | Part Number | Reg. | Part Number |
|------|--------------|------|--------------|------|--------------|------|--------------|------|--------------|
| 1 | L100-S001-04 | 22 | L100-S022-04 | 43 | L100-S043-04 | 64 | L100-S064-04 | 85 | L100-S085-04 |
| 2 | L100-S002-04 | 23 | L100-S023-04 | 44 | L100-S044-04 | 65 | L100-S065-04 | 86 | L100-S086-04 |
| 3 | L100-S003-04 | 24 | L100-S024-04 | 45 | L100-S045-04 | 66 | L100-S066-04 | 87 | L100-S087-04 |
| 4 | L100-S004-04 | 25 | L100-S025-04 | 46 | L100-S046-04 | 67 | L100-S067-04 | 88 | L100-S088-04 |
| 5 | L100-S005-04 | 26 | L100-S026-04 | 47 | L100-S047-04 | 68 | L100-S068-04 | 89 | L100-S089-04 |
| 6 | L100-S006-04 | 27 | L100-S027-04 | 48 | L100-S048-04 | 69 | L100-S069-04 | 90 | L100-S090-04 |
| 7 | L100-S007-04 | 28 | L100-S028-04 | 49 | L100-S049-04 | 70 | L100-S070-04 | 91 | L100-S091-04 |
| 8 | L100-S008-04 | 29 | L100-S029-04 | 50 | L100-S050-04 | 71 | L100-S071-04 | 92 | L100-S092-04 |
| 9 | L100-S009-04 | 30 | L100-S030-04 | 51 | L100-S051-04 | 72 | L100-S072-04 | 93 | L100-S093-04 |
| 10 | L100-S010-04 | 31 | L100-S031-04 | 52 | L100-S052-04 | 73 | L100-S073-04 | 94 | L100-S094-04 |
| 11 | L100-S011-04 | 32 | L100-S032-04 | 53 | L100-S053-04 | 74 | L100-S074-04 | 95 | L100-S095-04 |
| 12 | L100-S012-04 | 33 | L100-S033-04 | 54 | L100-S054-04 | 75 | L100-S075-04 | 96 | L100-S096-04 |
| 13 | L100-S013-04 | 34 | L100-S034-04 | 55 | L100-S055-04 | 76 | L100-S076-04 | 97 | L100-S097-04 |
| 14 | L100-S014-04 | 35 | L100-S035-04 | 56 | L100-S056-04 | 77 | L100-S077-04 | 98 | L100-S098-04 |
| 15 | L100-S015-04 | 36 | L100-S036-04 | 57 | L100-S057-04 | 78 | L100-S078-04 | 99 | L100-S099-04 |
| 16 | L100-S016-04 | 37 | L100-S037-04 | 58 | L100-S058-04 | 79 | L100-S079-04 | 100 | L100-S100-04 |
| 17 | L100-S017-04 | 38 | L100-S038-04 | 59 | L100-S059-04 | 80 | L100-S080-04 | | |
| 18 | L100-S018-04 | 39 | L100-S039-04 | 60 | L100-S060-04 | 81 | L100-S081-04 | | |
| 19 | L100-S019-04 | 40 | L100-S040-04 | 61 | L100-S061-04 | 82 | L100-S082-04 | | |
| 20 | L100-S020-04 | 41 | L100-S041-04 | 62 | L100-S062-04 | 83 | L100-S083-04 | | |
| 21 | L100-S021-04 | 42 | L100-S042-04 | 63 | L100-S063-04 | 84 | L100-S084-04 | | |

Only available in 4 mL vial sizes.

Contact Luminex Sales Support to inquire about custom fill options and lead times.

xMAP® Antibody Coupling (AbC) Kit



The xMAP® Antibody Coupling Kit, or “AbC” kit, is a reagent kit that contains everything you need to couple an antibody to MagPlex® Microspheres. Similar to an ELISA plate, MagPlex Microspheres can be used as the substrate on which immunoassays can be performed. Unlike a traditional ELISA, however, this method requires much less antibody, sample, and time, with equal or better sensitivity and dynamic range. Since each microsphere is uniquely labeled, multiple immunoassays can be performed simultaneously using the same sample in the same well. Once your desired antibody is coupled to the surface of the bead, you can begin optimizing monoplex or multiplex capture-sandwich immunoassays to suit your needs.

NOTE: This kit does NOT include microspheres or antibodies.

xMAP® Antibody Coupling Kit at a Glance:

- **Hands-on time** = ~40 mins
- **Total turnaround time** = ~3 hours
- Equipped with pre-optimized reagents and buffers (including EDC*), as well as all required consumables (including reaction tubes, pipettes)
- Easy-to-use protocol

Kit Capacity

- Small scale: up to 10 reactions of 5×10^6 beads/reaction or less
- Large scale: up to 4 reactions of greater than 5×10^6 beads/reaction
- Maximum scale: 12.5×10^6 beads/reaction

Bead Coupling Reactions

- Maximum: 50×10^6 beads (4 reactions @ 12.5×10^6 beads/reaction)
- Minimum: 2.5×10^6 beads (1 reaction @ 2.5×10^6 beads/reaction)

| Product | Part Number |
|-----------------------------|-------------|
| xMAP® Antibody Coupling Kit | 40-50016 |

Shelf life: This kit has a shelf life of 1 year from the date of manufacture. All xMAP AbC kits are guaranteed to have a minimum remaining shelf life of 1 month from the date they ship.

*EDC is provided in a one-time use configuration.

Magnetic Separators



Magnetic Plate Separator

The Luminex Magnetic Plate Separator is a modified plate magnet intended to separate a 96-well plate of MagPlex® Microspheres during assay preparation steps. The side clasps on this magnet have been specially designed to hold a round-bottom plate securely to the magnet, enabling the you quickly invert and decant it over a waste container. Similar to the method used in an ELISA, this manual plate washing method has been shown to effectively remove nearly all of the supernatant from every well on the plate, with virtually no bead carry-over.

Magnetic Plate Separator Highlights:

- For use in nucleic acid and protein assay preparation
- Designed to be used with the Manual Washing Procedure for MagPlex Microspheres
- ~ 90% less expensive than a typical automated plate washer



Magnetic Tube Separator

The Luminex 1.5 mL Magnetic Tube Separator is intended for a single reaction tube. Typically used in bead coupling reactions, this magnet can quickly separate 1 mL MagPlex Microspheres from solution and is a handy addition to any xMAP® benchtop.

Magnetic Tube Separator Highlights:

- For use in bead coupling and single reaction nucleic acid and protein assay preparation
- Ideal for small scale coupling reactions

| Product | Part Number |
|---------------------------------|-------------|
| Magnetic Plate Separator | CN-0269-01 |
| Magnetic Separator, 1.5 mL Tube | CN-0288-01 |



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luminexcorp.com/xMAP-Technology/

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