

# DNA Ladders

## BrightMAX™ DNA Ladders

For a highly efficient, bright and accurate DNA Fragment Separation on Agarose Gels



### Includes for 50 µg:

- 50 µg of BrightMAX™ DNA Ladder (0.1 µg/µL)



### Description:

Highly efficient, bright and accurate BrightMAX™ DNA Ladders for visualization on agarose gel DNA size standards. Canvax manufactures 7 different DNA size standards for small and large DNA molecules. These standards are ready-to-use markers which contain loading dye with one or two migration visualisation dye.

### Related products:

- TAE (p.138)
- TBE (p.138)
- Loading Buffers (p.117)
- Horse-Power™ Taq DNA Polymerase (p.103)

### Advantages & Features:

- ✓ Ready-to-use format to perfect visualization on agarose gel.
- ✓ Well-defined bands patterns.
- ✓ Highly Stable at Room Temperature.
- ✓ Bright and accurate.
- ✓ Tested with Ethidium bromide and Gel green.

### Applications:

- ✓ Molecular weight standards for gel electrophoresis.

### Quality control:

- ✓ Agarose gel electrophoresis.

	25 - 700 bp	50 - 1,000 bp	100 - 1,000 bp	100 - 2,000 bp	100 - 1,500 bp	300 - 10,000 bp	Lambda DNA/ HindIII Marker
	bp -700 -500 -400 -300 -200 -150 -100 -75 -50 -25	bp -1000 -900 -800 -700 -600 -500 -450 -400 -350 -300 -250 -200 -150 -100 -50	bp -1000 -900 -800 -700 -600 -500 -400 -300 -200 -100	bp -2000 -1500 -1250 -1000 -900 -800 -700 -600 -500 -400 -300 -200 -100	bp -1500 -1000 -900 -800 -700 -600 -500 -400 -300 -200 -100	bp -10000 -8000 -6000 -5000 -4000 -3000 -2500 -2000 -1500 -1000 -700 -500 -300	bp -23130 -9416 -6557 -4361 -2322 -2027 -564 -125
	3% TAE Agarose, ethidium bromide stain	2.5% TAE Agarose, ethidium bromide stain	2.5% TAE Agarose, ethidium bromide stain	2% TAE Agarose, ethidium bromide stain	2.5% TAE Agarose, ethidium bromide stain	0.7% TAE Agarose, ethidium bromide stain	0.7% TAE Agarose, ethidium bromide stain
<b>Catalog Number</b>							
20 µg	L0007-S	L0009-S	L0011-S	L0013-S	L0015-S	L0017-S	L0020-S
50 µg	L0007	L0009	L0011	L0013	L0015	L0017	L0020
250 µg	L0008	L0010	L0012	L0014	L0016	L0018	L0021

## Loading Buffers

### Includes for 5 mL:

- 5 x 1 mL of selected Loading Buffer



### Related products:

- BrightMAX™ DNA Ladders (p.116)
- TAE (p.137)
- TBE (137)

### Advantages & Features:

- ✓ **High quality.**
- ✓ **Proven performance** for DNA Ladders preparation.
- ✓ **Optimized** for protect sample from nuclease degradation, provide high density and to be confined in the well without diffusing out from the well.

### Applications:

- ✓ Preparation of DNA Ladders, markers and samples for loading on agarose or polyacrylamide gels.

### Quality control:

- ✓ Exempt of nucleases (endo, exo and ribonucleases) activities guaranteed by appropriate quality tests.

## 6x BX

### Ordering info:

Cat No.	Size
L0030	5 x 1 mL

### Concentration:

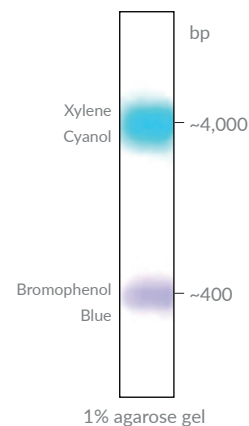
0.03% bromophenol blue, 0.03% xylene cyanol FF, 60% Glycerol, 10 mM Tris-HCl (pH 7.6) and 60 mM EDTA.

### Description:

6X BX/Loading Buffer is used as a loading dye for visual tracking of DNA migration during electrophoresis. It incorporates Bromophenol blue and Xylene Cyanol FF as tracking dye. Bromophenol blue migrates fast in the agarose gel and corresponds to the migration of a 300 - 500 bp long DNA fragment in a 1% agarose gel. Xylene cyanol FF migrates comparatively slower and corresponds to the migration of a 4,000 - 5,000 bp long DNA fragment in a 1% agarose gel.

EDTA is included in the solution to protect the sample from nuclease degradation. Glycerol is added to provide high density to the solution. Due to its high density, the sample settles at the bottom of the well. It also helps DNA samples to be confined in the well without diffusing out from it.

### Quality control:



## 6x B

### Ordering info:

Cat No.	Size
L0031	5 x 1 mL

### Concentration:

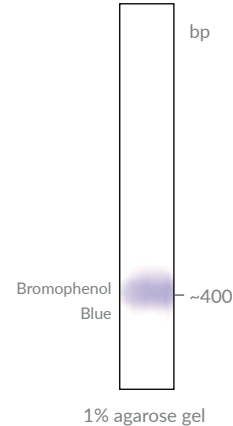
0.03% bromophenol blue, 60% Glycerol, 10 mM Tris-HCl (pH 7.6) and 60 mM EDTA.

### Description:

6X B/Loading Buffer is used as a loading dye for visual tracking of DNA migration during electrophoresis. It incorporates Bromophenol blue. Bromophenol blue migrates fast in the agarose gel and corresponds to the migration of a 300 - 500 bp long DNA fragment in a 1% agarose gel.

EDTA is included in the solution to protect sample from nuclease degradation. Glycerol is added to provide high density to the solution. Due to its high density, sample settles at the bottom of the well. It also helps DNA samples to be confined in the well without diffusing out from it.

### Quality control:



## 6x OX

### Ordering info:

Cat No.	Size
L0032	5 x 1 mL

### Concentration:

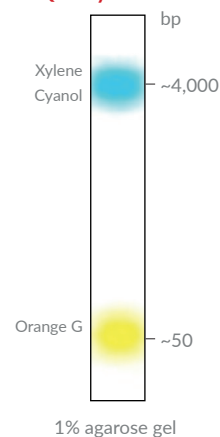
0.15% orange G, 0.03% xylene cyanol FF, 60% Glycerol, 10 mM Tris-HCl (pH 7.6) and 60 mM EDTA

### Description:

6X OX/Loading Buffer is used as a loading dye for visual tracking of DNA migration during electrophoresis. It incorporates Orange G and Xylene Cyanol FF as tracking dye. Orange G migrates comparatively very fast and corresponds to the migration of a 50 bp long DNA fragment in 1% agarose gel. Xylene cyanol FF migrates comparatively slower and corresponds to the migration of a 4,000 - 5,000 bp long DNA fragment in a 1% agarose gel.

The EDTA is included in the solution to protect samples from nuclease degradation. Glycerol is added to provide high density to the solution. Due to its high density, sample settles at the bottom of the well. It also helps DNA samples to be confined in the well without diffusing out from it.

### Quality control:





## 8. Recombinant Proteins

# Recombinant Proteins

## Recombinant proteins



**Includes:**

- Recombinant Protein
- Dry ice



**Related products:**

- Protein Expression Services (p.140)
- Small scale recombinant protein production Services (p.140)
- Monoclonal antibodies (p.123)
- Polyclonal antibodies (p.123)
- Polyclonal & Monoclonal Antibody Production Services (p.140)

**Description:**

Canvax offers a wide range of high quality Human Recombinant proteins for several research applications like ELISA, Western Blot, Antibody Production or Protein array.

**Advantages & Features:**

- ✓ **Highest purity:** free of interferences from other proteins or contaminants.
- ✓ **Tagged versions:** including His-tagged, GST-tagged and untagged versions.
- ✓ **Convenient:** available in different formats.
- ✓ **Cost avoidance:** dry ice free of charge.

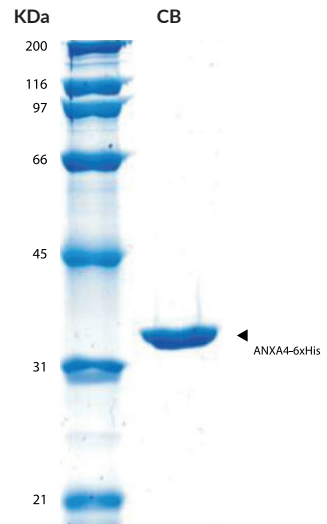
**Applications:**

- ✓ ELISA.
- ✓ Western Blot.
- ✓ Antibody Production.
- ✓ Protein array.

**Quality control:**

- ✓ SDS-PAGE stained with Coomassie Blue (CB).
- ✓ Immunoblotting (WB).
- ✓ Peptide fingerprinting by MALDI-TOF-TOF mass spectrometry.

**Figure 8.1.:** Example of Quality control for Human Annexin A4 (ANXA4) recombinant protein.





Description	Origin	Purity	Catalog No.	Size
Human AKT1 (RAC-alpha serine/theorine-proteine-protein kinase), 6xHis tagged	<i>E. coli</i>	>90%	PR0331 PR0332 PR0333	20 µg 50 µg 100 µg
Human AKT1 (RAC-alpha serine/theorine-proteine-protein kinase), 6xHis-GST tagged	<i>E. coli</i>	>95%	PR0301 PR0302 PR0303	20 µg 50 µg 100 µg
Human ANXA1 (Annexin A1), GST tag	<i>E. coli</i>	>90%	PR0241 PR0242 PR0243	10 µg 25 µg 50 µg
Human ANXA2 (Annexin A2), 6xHis tag	<i>E. coli</i>	>95%	PR0251 PR0252 PR0253	10 µg 25 µg 50 µg
Human ANXA3 (Annexin A3), 6xHis tag	<i>E. coli</i>	>95%	PR0011 PR0012 PR0013	10 µg 25 µg 50 µg
Human ANXA4 (Annexin A4), 6xHis tag	HEK293E cells	>99%	PR0021 PR0022	10 µg 25 µg
Human ANXA5 (Annexin A5), 6xHis tag	<i>E. coli</i>	>95%	PR0291 PR0292 PR0293	10 µg 25 µg 50 µg
Human ANXA6 (Annexin A6), 6xHis tag	<i>E. coli</i>	>95%	PR0261 PR0262 PR0263	10 µg 25 µg 50 µg
Human ANXA9 (Annexin A9), 6xHis tag	<i>E. coli</i>	>95%	PR0271 PR0272 PR0273	10 µg 25 µg 50 µg
Human ANXA10 (Annexin A10), GST tag	<i>E. coli</i>	>95%	PR0281 PR0282 PR0283	10 µg 25 µg 50 µg
Human BMP4 (Bone morphogenetic protein 4), His-MBP tags	<i>E. coli</i>	>90%	PR0031 PR0032 PR0033	20 µg 50 µg 100 µg
Human BTLA (B-and T-lymphocyte attenuator), 6xHis tag	<i>E. coli</i>	>95%	PR0221 PR0222 PR0223	10 µg 25 µg 50 µg
Human Calcinesurin heterodimer (PPP3CA & PPP3R1), MBP tag	<i>E. coli</i>	>90%	PR0481 PR0482 PR0483	10 µg 25 µg 50 µg
Human CTHRC1 (Collagen triple helix repeat-containing 1), MBP tag	<i>E. coli</i>	>95%	PR0471 PR0472 PR0473	10 µg 25 µg 50 µg
Human CTHRC1 (Collagen triple helix repeat-containing 1), MBP tag	<i>E. coli</i>	>90%	PR0441 PR0442 PR0443	25 µg 50 µg 100µg
Human CXCL1 (Growth-regulated alpha protein), MBP tag	<i>E. coli</i>	>95%	PR0051 PR0052 PR0053	10 µg 25 µg 50 µg
Human CXCL3 (C-X-C motif chemokine 3), MBP tag	<i>E. coli</i>	>95%	PR0061 PR0062 PR0063	10 µg 25 µg 50 µg
Human CypA (Cyclophilin A), without tag	<i>E. coli</i>	>95%	PR0461 PR0462 PR0463	10 µg 25 µg 50 µg
Human DIABLO (Diablo homolog, mitochondrial), 6xHis-GST tagged	Insect Sf9 cells	>90%	PR0401 PR0402 PR0403	10 µg 25 µg 50 µg
Human EDIL3, 6xHis tag	Sf9-Baculovirus	>80%	PR0591 PR0592 PR0593	10 µg 25 µg 50 µg
Human EDIL3, GST tag	Sf9-Baculovirus	>80%	PR0601 PR0602 PR0603	10 µg 25 µg 50 µg
Human EFNB2 (Ephrin-B2) extracellular domain, Fc and 6xHis	HEK293E cells	>99%	PR0071 PR0072 PR0073	10 µg 25 µg 50 µg
Human EMILIN1 (Emilin 1), 6xHis tagged	<i>E. coli</i>	>95%	PR0441 PR0442 PR0443	10 µg 25 µg 50 µg
Human EMILIN1 (Emilin 1), 6xHis-GST tagged	<i>E. coli</i>	>90%	PR0431 PR0432 PR0433	10 µg 25 µg 50 µg
Human FGF2 (Fibroblast Growth Factor 2), 6xHis tag	Insect Sf9 cells	>80%	PR0491 PR0492 PR0493	5 µg 10 µg 25 µg
Human FGF2 (Fibroblast Growth Factor 2), 18kDa isoform, 6xHis tag	<i>E. coli</i>	>90%	PR0501 PR0502 PR0503	10 µg 25 µg 50 µg
Human FGFR3 (Fibroblast Growth Factor receptor 3), extracellular domain, Fc and 6xHis tag	HEK293E cells	>99%	PR0081 PR0082 PR0083	20 µg 50 µg 100 µg
Human FKBP12 (Calstabin 1), without tag	Insect Sf9 cells	>95%	PR0451 PR0452 PR0453	10 µg 25 µg 50 µg
Human FLT3LG, GST tag	Sf9-Baculovirus	>70%	PR0691 PR0692 PR0693	10 µg 25 µg 50 µg
Human GABPB, 6xHis tag	Sf9-Baculovirus	>90%	PR0651 PR0652 PR0653	10 µg 25 µg 50 µg
Human GABPB1, GST tag	Sf9-Baculovirus	>90%	PR0661 PR0662 PR0663	10 µg 25 µg 50 µg
Human GRB2 (Growth Factor Receptor-Bound Protein 2) 6xHis-GST tagged	<i>E. coli</i>	>95%	PR0341 PR0342 PR0343	20 µg 50 µg 100 µg
Human GRB2 (Growth Factor Receptor-Bound Protein 2) 6xHis tagged	<i>E. coli</i>	>95%	PR0251 PR0252 PR0253	20 µg 50 µg 100 µg
Human GTF2E1, GST tag	Sf9-Baculovirus	>70%	PR0671 PR0672 PR0673	10 µg 25 µg 50 µg
Human TDGF1 (Teratocarcinoma-derived growth factor 1), MBP tag	<i>E. coli</i>	>95%	PR0201 PR0202 PR0203	10 µg 25 µg 50 µg

Description	Origin	Purity	Catalog No.	Size
Human GTF2E1, 6xHis tag	<i>E. coli</i>	>70%	PR0681 PR0682 PR0683	10 µg 25 µg 50 µg
Human HN1 (Hematological and neurological expressed 1 protein), 6xHis-tag	<i>E. coli</i>	>90%	PR0311 PR0312 PR0313	10 µg 25 µg 50 µg
Human HN1 (Hematological and neurological expressed 1 protein), 6xHis tag	<i>E. coli</i>	>95%	PR0321 PR0322 PR0323	10 µg 25 µg 50 µg
Human IFITM2 (Interferon-induced transmembrane protein 2), 6His-GST tag	<i>E. coli</i>	>90%	PR0091 PR0092 PR0093	10 µg 25 µg 50 µg
Human IFITM3 (Interferon-induced transmembrane protein 3), 6His-GST tag	<i>E. coli</i>	>90%	PR0101 PR0102 PR0103	10 µg 25 µg 50 µg
Human IL6 (Interleukin 6), 6xHis tag	<i>E. coli</i>	>95%	PR0111 PR0112 PR0113	25 µg 50 µg 100 µg
Human IL6 (Interleukin 6), without tag	<i>E. coli</i>	>95%	PR0581 PR0582 PR0583	20 µg 50 µg 100 µg
Human IL8 (72aa residues) (Interleukin 8), 6His tag	<i>E. coli</i>	>95%	PR0121 PR0122 PR0123	25 µg 50 µg 100 µg
Human IL8 (72aa residues) (Interleukin 8), without tag	<i>E. coli</i>	>95%	PR0561 PR0562 PR0563	25 µg 50 µg 100 µg
Human IL8 (77aa residues) (Interleukin 8), 6His tag	<i>E. coli</i>	>95%	PR0131 PR0132 PR0133	25 µg 50 µg 100 µg
Human IL8 (77aa residues) (Interleukin 8), without tag	<i>E. coli</i>	>95%	PR0571 PR0572 PR0573	25 µg 50 µg 100 µg
Human KAL1 Overexpression lysate product, Tag-free	CHO-K1 cells	>90%	PR0511	200 µg
Human KAL1 (Aposmin 1) partial (297 residues), 6xHis tag	<i>E. coli</i>	>90%	PR0521 PR0522 PR0523	10 µg 25 µg 50 µg
Human LCN2 (Lipocalin 2), GST tag	<i>E. coli</i>	>95%	PR0141 PR0142 PR0143	10 µg 25 µg 50 µg
Human MEF2A, 6xHis tag	<i>E. coli</i>	>90%	PR0611 PR0612 PR0613	10 µg 25 µg 50 µg
Human MEF2A, GST tag	Sf9-Baculovirus	>90%	PR0621 PR0622 PR0623	10 µg 25 µg 50 µg
Human MMP7 (Matrilysin), 6His tag	<i>E. coli</i>	>95%	PR0151 PR0152 PR0153	10 µg 25 µg 50 µg
Human MMP11 (Stromelysin-3), 6His-GST tag	<i>E. coli</i>	>80%	PR0161 PR0162 PR0163	10 µg 25 µg 50 µg
Human PDCD2 (Programmed cell death protein 2), MBP tag	<i>E. coli</i>	>90%	PR0231 PR0232 PR0233	10 µg 25 µg 50 µg
Human RAB2A (Bas-related protein Rab-2A) 6xHis tagged	<i>E. coli</i>	>95%	PR0361 PR0362 PR0363	10 µg 25 µg 50 µg
Human RAB2A (Bas-related protein Rab-2A) 6xHis-GST tagged	<i>E. coli</i>	>95%	PR0371 PR0372 PR0373	10 µg 25 µg 50 µg
Human SEPT5 (Septin 5), 6xHis-GST tagged	<i>E. coli</i>	>95%	PR0381 PR0382 PR0383	10 µg 25 µg 50 µg
Human SEPT5 (Septin 5), 6xHis tagged	<i>E. coli</i>	>95%	PR0391 PR0392 PR0393	10 µg 25 µg 50 µg
Human SPARC (Osteonectin), MBP tag	<i>E. coli</i>	>90%	PR0171 PR0172 PR0173	20 µg 50 µg 100 µg
Human SPP1 (Osteonectin), GST tag	<i>E. coli</i>	>90%	PR0181 PR0182 PR0183	20 µg 50 µg 100 µg
Human SPP1 (Osteonectin), MBP tag	<i>E. coli</i>	>80%	PR0191 PR0192 PR0193	20 µg 50 µg 100 µg
Human TCEAL2, 6xHis tag	Sf9-Baculovirus	>70%	PR0631 PR0632 PR0633	10 µg 25 µg 50 µg
Human TCEAL2, GST tag	Sf9-Baculovirus	>70%	PR0641 PR0642 PR0643	10 µg 25 µg 50 µg
Human TERF1 (Telomeric repeat-binding factor1), 6xHis-GST tags	<i>E. coli</i>	>85%	PR0421 PR0422 PR0423	10 µg 25 µg 50 µg
Human TERF1 (Telomeric repeat-binding factor 1), 6xHis tagged	CHO-K1 cell	>85%	PR0411 PR0412 PR0413	10 µg 25 µg 50 µg
Human TIMP1 (Metalloproteinase inhibitor 1), MBP tag	<i>E. coli</i>	>90%	PR0211 PR0212 PR0213	10 µg 25 µg 50 µg
Human TNFα (Tumor Necrosis Factor) partial (157 ass) 6His-tagged	<i>E. coli</i>	>90%	PR0551 PR0552 PR0553	10 µg 25 µg 50 µg
Human VEGF A (Vascular Endothelial Growth Factor A), 6xHis tag	Sf9-Baculovirus	>90%	PR0531 PR0532 PR0533	10 µg 25 µg 50 µg
Human VEGF A (Vascular Endothelial Growth Factor A), 6xHis tag	Insect Sf9 cell	>90%	PR0541 PR0542 PR0543	10 µg 25 µg 50 µg
Human PDCD2 (Programmed cell death protein 2), MBP tag	<i>E. coli</i>	>95%	PR0231 PR0232 PR0233	10 µg 25 µg 50 µg

The background of the page is a microscopic image of glandular ducts, showing a complex network of circular and oval structures with a central lumen, surrounded by a cellular wall. The image is overlaid with a semi-transparent dark red filter. The top and bottom edges of the page are curved, following the shape of the glandular ducts.

## 9. Antibodies & Serums

Antibodies

Serums, Plasma and Albumin



# Antibodies & Serums

## Antibodies

For highest performance and purity for Elisa or Western Blot



### Related Products:

- Recombinant Proteins (p.119)
- Protein Expression Services (p.140)
- Small scale recombinant Protein production Services (p.140)
- Polyclonal & Monoclonal Antibody Production Services (p.140)

### Description:

Canvax has designed, properly prepared and characterized a portfolio of monoclonal and polyclonal antibodies for ELISA and Western Blot applications.

### Applications:

- ✓ ELISA.
- ✓ Western Blot.
- ✓ Immunohistochemistry.

### Advantages & Features:

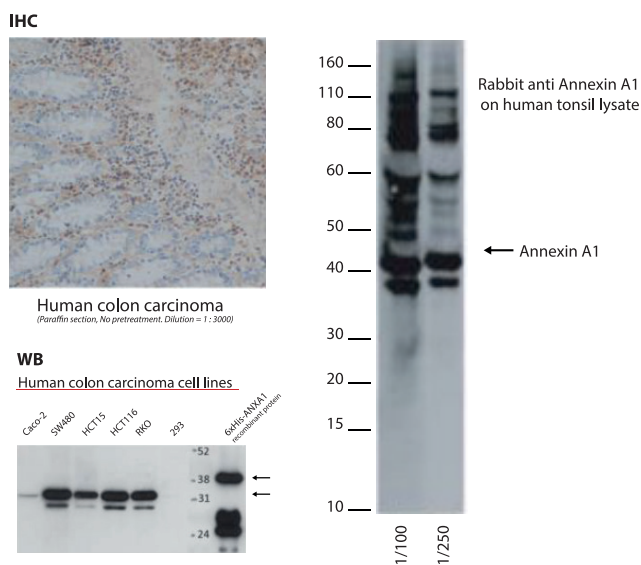
- ✓ **Proven performance** for Elisa and Western Blot.
- ✓ **Highest performance and purity.**
- ✓ **Human specificity:** reactivity with other species untested.
- ✓ **Cost avoidance:** dry ice free of charge.
- ✓ **Purification Method:** protein G/A affinity chromatography.

## Polyclonal antibodies

Host	Antibody	Protein	Isotype	Catalog Number	Unit Size
Rabbit	Anti-ANXA1	Annexin A1	IgG	PA001	100 µg
Rabbit	Anti-ANXA2	Annexin A2	IgG	PA002	100 µg
Rabbit	Anti-ANXA3	Annexin A3	IgG	PA003	100 µg
Rabbit	Anti-ANXA5	Annexin A5	IgG	PA004	100 µg
Rabbit	Anti-ANXA6	Annexin A6	IgG	PA005	100 µg
Rabbit	Anti-ANXA9	Annexin A9	IgG	PA006	100 µg
Rabbit	Anti-ANXA10	Annexin A10	IgG	PA007	100 µg
Rabbit	Anti-FGF2	Fibroblast Growth Factor 2	IgG	PA008	100 µg
Rabbit	Anti-KAL1	Anosmin 1	IgG	PA009	100 µg

### Quality control:

Example of Quality control for Rabbit Anti-ANXA1 (Annexin A1):

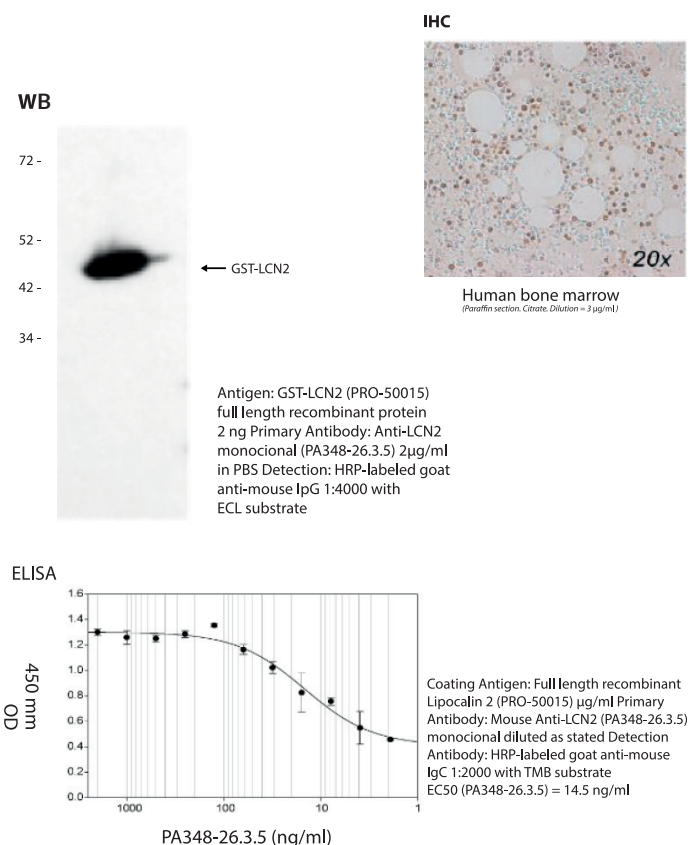


## Monoclonal antibodies

Host	Antibody	Protein	Isotype	Clone	Catalog Number	Unit Size
Mouse	Anti-LCN2	Lipocalin 2	IgG1k	PA348-26.3.5	MA0001	100 µg
Mouse	Anti-ANXA4	Annexin A4	IgG2ak	PA351-29.1.3	MA0002	100 µg
Mouse	Anti-EFNB2	Ephrin B2	IgG1k	PA349-18.4.3	MA0003	100 µg
Mouse	Anti-NR1H4	Bile acid receptor isoform 2	IgG1	322.1.2.2	MA0004	100 µg
Mouse	Anti-BMP4	Bone morphogenetic protein 4	IgG1k	PA354-16.1.1	MA0005	100 µg
Mouse	Anti-FGF2	Fibroblast Growth Factor 2	IgG1	PA341.15.23.3	MA0006	100 µg
Mouse	Anti-KAL1	Anosmin 1	IgG1	PA343-13.22.2	MA0007	100 µg
Mouse	Anti-NGFR	Nerve Growth Factor Receptor	IgG1	HB-8737 (20.4)	MA0320	100 µg
Mouse	Anti-FITC	Fluorescein	IgG2a	4.4.20	MA0330	100 µg

### Quality control:

Example of Quality control for Mouse Monoclonal Anti-LCN2:





# Animal Serum, Plasma and Albumin

## List of commercial Serum, Plasma and Albumin availables:

Product	Catalog No.	Size
Fetal Bovine Serum (FBS)	SUF001	20 ml
	SUF002	50 ml
Horse Serum	SUH001	20 ml
	SUH002	50 ml
Donor Foal Serum	SUD001	20 ml
	SUD002	50 ml
Donkey Serum	SUD004	20 ml
	SUD005	50 ml
Goat Serum	SUG001	20 ml
	SUG002	50 ml
Lamb Serum	SUL001	20 ml
	SUL002	50 ml
Sheep Serum	SUS001	20 ml
	SUS002	50 ml
Pig Serum	SUP001	20 ml
	SUP002	50 ml
Chicken Serum	SUC004	20 ml
	SUC005	50 ml
Rabbit Serum	SUR001	20 ml
	SUR002	50 ml
Rat Serum	SUR004	20 ml
	SUR005	50 ml
Mouse Serum	SUM001	20 ml
	SUM002	50 ml
Guinea Pig Serum	SUG004	20 ml
	SUG005	50 ml
Bovine Plasma w/ Sodium Citrate	SUB004	20 ml
	SUB005	50 ml
Rabbit Plasma w/ EDTA	SUR007	20 ml
	SUR008	50 ml
Rat Plasma w/ Lithium Heparin	SUR010	20 ml
	SUR011	50 ml
Bovine Serum Albumin (BSA) Lyophilised pH ~7	SUB001	20 ml
	SUB002	50 ml
Bovine Serum Albumin (BSA) 30 % liquid	SUB010	20 ml
	SUB011	50 ml
Human Plasma pooled	SUM007	20 ml
	SUM008	50 ml
Human Serum Albumin Lyophilised	SUM010	20 ml
	SUM011	50 ml



# 10. Antibiotics

# Antibiotics

## Ampicillin Sodium salt

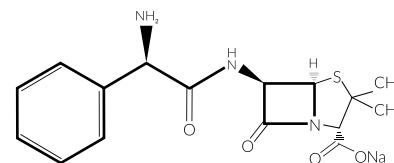
### Ordering info:

Cat No.	Size
AB001	10 g
AB002	25 g



### Specifications:

**CAS No:** 69-52-3  
**MDL No:** MFCD00064313  
**Chemical Formula:** C<sub>16</sub>H<sub>18</sub>N<sub>3</sub>O<sub>4</sub>SNa  
**Molecular Weight:** 371.39  
**pH:** 8.0 - 10.0  
**Water content:** >2.0%



## Chloramphenicol

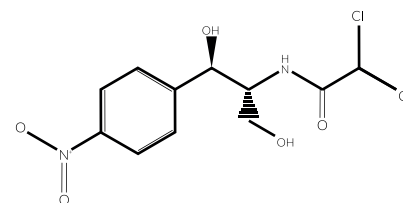
### Ordering info:

Cat No.	Size
AB003	25 g
AB004	50 g



### Specifications:

**CAS Number:** 56-75-7  
**Chemical Formula:** C<sub>11</sub>H<sub>12</sub>Cl<sub>2</sub>N<sub>2</sub>O<sub>5</sub>  
**Molecular Weight:** 323.13  
**Appearance:** White or slightly yellow  
**Assay:** 98.0~102.0%  
**Loss on drying:** >0.5%



## Kanamycin Sulphate

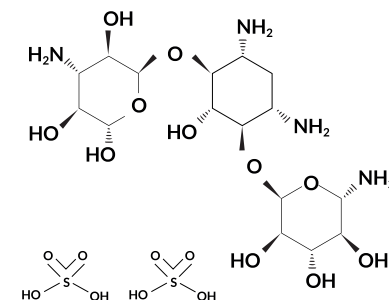
### Ordering info:

Cat No.	Size
AB005	5 g
AB006	25 g



### Specifications:

**CAS Number:** 25389-94-0  
**Chemical Formula:** C<sub>18</sub>H<sub>36</sub>N<sub>4</sub>  
**Molecular Weight:** 582.58  
**Appearance:** White to off-white crystalline powder  
**Loss on drying:** >2%  
**Potency:** <750 µg/mg



## Carbenicillin Disodium

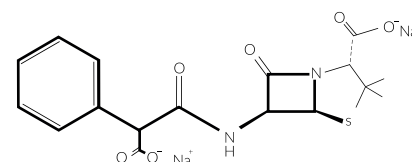
### Ordering info:

Cat No.	Size
AB007	1 g
AB008	5 g



### Specifications:

**CAS Number:** 4800-94-6  
**Chemical Formula:** C<sub>17</sub>H<sub>16</sub>N<sub>2</sub>Na<sub>2</sub>O<sub>6</sub>S  
**Molecular Weight:** 422.36  
**Appearance:** White to pale yellow powder  
**Purity (on dried basis):** <90%  
**Water content:** >5%



## Tetracycline Hydrochloride

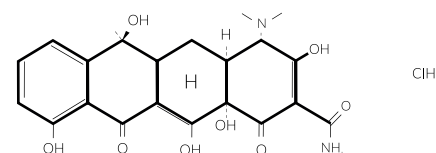
### Ordering info:

Cat No.	Size
AB009	25 g
AB010	50 g



### Specifications:

**CAS Number:** 64-75-5  
**Chemical Formula:** C<sub>22</sub>H<sub>25</sub>ClN<sub>2</sub>O<sub>8</sub>  
**Molecular Weight:** 480.90  
**Appearance:** Yellow powder  
**Potency:** <950 µg/mg  
**Specific optical rotation:** -240 to -255°



## Gentamicin Sulphate

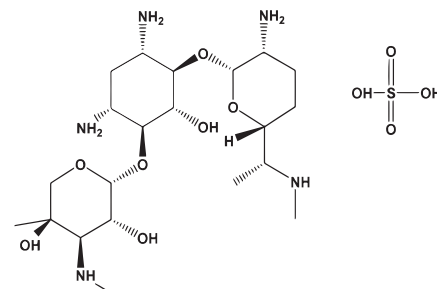
### Ordering info:

Cat No.	Size
AB011	5 g
AB012	10 g



### Specifications:

**CAS Number:** 1405-41-0  
**Chemical Formula:**  $C_{21}H_{44}N_6O_{13}S$   
**Loss on drying:** >18%  
**Appearance:** White or slightly yellow  
**Activity anhydrous basis:** <590 ug/mg  
**Gentamicin content:** C1a: 10 - 35%  
**Gentamicin content:** C2+C2a: 25 - 55%  
**Gentamicin content:** C1: 25 - 50%  
**pH:** 3.5 - 5.5  
**Molecular Weight:** 1488,79



## Neomycin

### Ordering info:

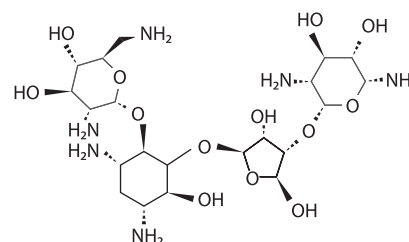
Powder format	
Cat No.	Size
AB018	1 g
AB019	5 g

Ready-to-use format	
Cat No.	Size
AB021	10 mL
AB022	50 mL



### Specifications:

**Formula:**  $C_{23}H_{46}N_6O_{13} \cdot xH_2SO_4$   
**Molecular weight:** 614.7 (Base)  
**Potency:** min. 680  
**pH (1% in H<sub>2</sub>O):** 5.0 - 7.5  
**Sulfate (%):** 27.0 - 31.0  
**Origin :** microbiological fermentation  
**Sulfated ash:** <1.0



## Puromycin dihydrochloride

### Ordering info:

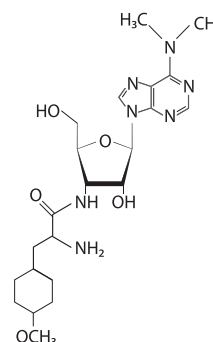
Powder format	
Cat No.	Size
AB024	1 g
AB025	5 g

Ready-to-use format	
Cat No.	Size
AB027	10 mL
AB028	50 mL



### Specifications:

**CAS Number:** 58-58-2  
**Chemical Formula:**  $C_{22}H_{29}N_7O_5 \cdot 2HCl$   
**Molecular Weight:** 544.44  
**Purity (HPLC):** > 98%



## Hygromycin

### Ordering info:

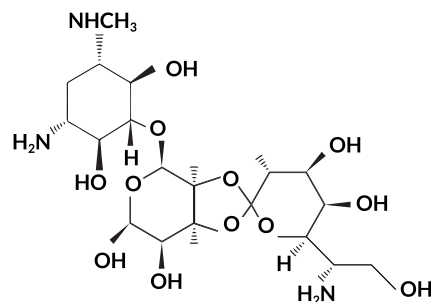
Powder format	
Cat No.	Size
AB030	1 g
AB031	5 g

Ready-to-use format	
Cat No.	Size
AB033	10 mL
AB034	50 mL



### Specifications:

**CAS Number:** 31282-04-9  
**Chemical Formula:**  $C_{20}H_{37}N_3O_{13}$   
**Molecular Weight:** 527.52  
**Purity (HPLC):** > 92%  
**Potency:** > 1,000 U/mg





The background of the slide is a light micrograph of white adipose tissue, showing large, clear adipocytes with thin, pink-stained cell walls. The tissue is arranged in a honeycomb-like pattern. A dark brown curved line separates the top and bottom sections of the image.

# 11. Magnetic Particles

*Photo: Light micrograph of white adipose tissue stained with hematoxylin and eosin adipocytes fat cells*

# CaxBeads™ Magnetic Particles

Widely functionalized ferromagnetic particles including uniform non-porous silica beads



Concentration: 50 mg/mL



## Description:

CaxBeads™ Magnetic Particles include a wide range of ferromagnetic particles with a magnetite core coated with non-porous silica and functionalized with different reactive groups. CaxBeads™ ferromagnetic particles have been optimized to improve its very strong magnetic properties, therefore offering a fast separation with an external magnetic field even in viscous media. These 250-300 nm uniform high-quality particles are ideal for many applications such as purification of DNA/RNA and proteins, immobilization of target molecules, cell sorting, immunoassay or proteomics.

## Advantages & Features:

- ✓ High quality.
- ✓ Proven performance.
- ✓ Rapid and robust.
- ✓ Easy scalability and flexibility.

## Quality control:

- ✓ Stringent quality control standards to guarantee lot-to-lot consistency.

## Related Products:

- MagBeads™ Yeast Genomic DNA Isolation Kit (p.96)
- MagBeads™ Plasmid Purification Kit (p.96)
- MagBeads™ Plant Genomic DNA Isolation Kit (p.97)
- MagBeads™ PCR Cleanup Kit (p.95)
- MagBeads™ Bacteria G (+) Genomic DNA Isolation (p.95)
- MagBeads™ Bacteria G (-) Genomic DNA Isolation (p.94)

## CaxBeads™ C8

### Ordering info:

Cat No.	Size
MP021	4 mL
MP022	10 mL

### Description:

Ferromagnetic particles coated with hydrophobic C8 alkyl groups on the surface of non-porous silica beads. CaxBeads™ C8 offer an intermediate hydrophobicity (less hydrophobic than C18 and more hydrophobic than C4 beads), most suitable for low to intermediate molecular weight protein purification.

Functional Group:  $-\text{CH}_2-(\text{CH}_2)_6-\text{CH}_3$

### Applications:

- ✓ Adsorption of Biomolecules.
- ✓ MALDI sample preparation.
- ✓ Adsorption or isolation of Proteins.
- ✓ Immobilization by adsorption.

## CaxBeads™ C4

### Ordering info:

Cat No.	Size
MP011	4 mL
MP012	10 mL

### Description:

Ferromagnetic beads coated with hydrophobic C4 alkyl groups on the surface of non-porous silica. The relatively low hydrophobicity of the C4 beads allows the purification and fractionation of larger biomolecules. Although in many cases the three types of reverse phase magnetic beads can be used interchangeably, C4 beads are most suitable for larger molecular weight proteins.

Functional Group:  $-\text{CH}_2-(\text{CH}_2)_2-\text{CH}_3$

### Applications:

- ✓ Adsorption of Biomolecules.
- ✓ Adsorption or isolation of Proteins.
- ✓ Immobilization by adsorption.
- ✓ MALDI sample preparation.
- ✓ Fractionation of larger molecular weight proteins and peptides.
- ✓ Rapid release hydrophobic molecules by weaker organic solvents.

## CaxBeads™ C18

### Ordering info:

Cat No.	Size
MP001	4 mL
MP002	10 mL

### Description:

Ferromagnetic particles coated with hydrophobic C18 alkyl groups on the surface of non-porous silica beads. C-18 Magnetic beads are recommended for purification, desalting and concentration of low molecular weight proteins or peptides.

Functional Group:  $-\text{CH}_2-(\text{CH}_2)_{16}-\text{CH}_3$

### Applications:

- ✓ Binds most organic analytes from aqueous matrices.
- ✓ Extraction of numerous analytes diverse in structure for the same sample.
- ✓ Adsorption of Biomolecules.
- ✓ MALDI sample preparation.
- ✓ Adsorption or isolation of Proteins.
- ✓ Immobilization by adsorption.

## CaxBeads™ DEAE

### Ordering info:

Cat No.	Size
MP031	4 mL
MP032	10 mL

### Description:

CaxBeads™ DEAE is a weak anionic resin with a thick cover of diethyl-aminoethyl groups, rendering the amine group as a quaternary amine. The beads allow the rapid release of very strong anions. These beads are specifically designed for easier and quicker fractionation of proteins/ peptides from complex biological samples.

Functional Group: Diethylaminoethyl ( $-\text{CH}_2-\text{N}-(\text{CH}_3)_2$ )

### Applications:

- ✓ Weak Anionic exchange resin.
- ✓ Nucleic acid capture, adsorption, isolation or purification.
- ✓ Adsorption of Biomolecules.
- ✓ Adsorption or isolation of Proteins.

## CaxBeads™ IDA

### Ordering info:

Cat No.	Size
MP041	4 mL
MP042	10 mL

### Description:

CaxBeads™ IDA are coated with high-density iminodiacetic Acid (IDA) functional groups on the surface. It can be charged with nickel ( $\text{Ni}^{2+}$ ), cobalt ( $\text{Co}^{2+}$ ), zinc ( $\text{Zn}^{2+}$ ) or copper ( $\text{Cu}^{2+}$ ). They are used for immobilized metal affinity chromatography (IMAC). CaxBeads™ IDA- $\text{Ni}^{2+}$  has three  $\text{Ni}^{2+}$  binding sites to His TAG, while chelates resins have two  $\text{Ni}^{2+}$  binding sites. More binding sites to metal means more affinity to metal, resulting in less loss of metal (less metal contamination in the elution).

Functional Group: silanol-iminodiacetic acid-Metal ( $\text{Ni}^{2+}$  or other).

### Applications:

- ✓ Isolation, purification or immobilization of Histidine modified proteins.
- ✓ Immobilized metal affinity chromatography (IMAC).

## CaxBeads™ AmineLC

### Ordering info:

Cat No.	Size
MP101	4 mL
MP102	10 mL

### Description:

CaxBeads™ Amine LC is an anionic exchange resin with a high density of primary amine as functional group on the surface of ferromagnetic beads. The beads are used to covalently conjugate carboxyl-containing molecules. Hydrophilic, stable in aqueous solutions, more stable when the amine groups are charged in mild acid pH.  
**Functional Group:** Primary amine (-NH<sub>2</sub>).

### Applications:

- ✓ Anionic exchange resin.
- ✓ Cation, adsorption, isolation or purification of Nucleic acid.
- ✓ Adsorption of Biomolecules.
- ✓ Adsorption or isolation of Proteins.
- ✓ Immobilization of Enzymes by Crosslinking.

## CaxBeads™ BetaCD

### Ordering info:

Cat No.	Size
MP111	4 mL
MP112	10 mL

### Description:

CaxBeads™ BetaCD are ferromagnetic beads coated with terminal beta cyclodextrin groups on the surface of non-porous silica.  
**Functional Group:** β-cyclodextrin

### Applications:

- ✓ Encapsulation of Hydrophobic molecules.
- ✓ Adsorption and detection of molecules in biological samples.
- ✓ Refolding of proteins.
- ✓ Increase the solubility of low solubility compounds.

## CaxBeads™ Tris

### Ordering info:

Cat No.	Size
MP121	4 mL
MP122	10 mL

### Description:

CaxBeads™ Tris is a cationic exchange resin to purify proteins based in a highly hydrophilic support due to the tris hydroxymethyl methane groups attached to the particles' surface.

**Functional Group:** Tris (Hidroxymethyl) amine methane.

### Applications:

- ✓ Cationic exchange resin.
- ✓ Cation, adsorption, isolation or purification of Nucleic acid.
- ✓ Adsorption of Biomolecules.
- ✓ Adsorption or isolation of Proteins.
- ✓ Immobilization by adsorption.
- ✓ Heavy Metal absorption such Ni<sup>+2</sup>, Co<sup>+2</sup>, Zn<sup>+2</sup>, Cu<sup>+2</sup>.
- ✓ Glycoproteins modified proteins purification.

## CaxBeads™ Citrate

### Ordering info:

Cat No.	Size
MP131	4 mL
MP132	10 mL

### Description:

CaxBeads™ Citrate is a cationic exchange resin with a high density of citric acid via chemisorption on non-porous silica surface. The beads are used to covalently conjugate primary amine-containing ligands via a stable amide bond.

**Functional Group:** Carboxile/ Carboxilate.

### Applications:

- ✓ Cationic exchange resin.
- ✓ Cation, adsorption, isolation or purification of Nucleic acid.
- ✓ Adsorption of Biomolecules.
- ✓ Adsorption or isolation of Proteins.
- ✓ Covalent immobilization of proteins.

## CaxBeads™ Cyane

### Ordering info:

Cat No.	Size
MP141	4 mL
MP142	10 mL

### Description:

CaxBeads™ Cyane are ferromagnetic beads coated with cyane groups on the surface of non-porous silica.

**Functional Group:** Cyane (-CN)

### Applications:

- ✓ Adsorption of Hydrophobic molecules.
- ✓ Covalent immobilization of proteins.

## CaxBeads™ EpoxiLC

### Ordering info:

Cat No.	Size
MP151	4 mL
MP152	10 mL

### Description:

CaxBeads™ Epoxi LC are ferromagnetic beads coated with a large chain of epoxy/oxirane on the surface of non-porous silica. The beads are used to covalently conjugate amine, sulfhydryl, or hydroxyl group-containing ligands. More preferable than CaxBeads™ Epoxi SC to immobilize higher peptides.

**Functional Group:** large chain epoxy/ oxirane.

### Applications:

- ✓ Covalent immobilization of Biomolecules in mild conditions pH 5-9, temperature between 4-37° C.

## CaxBeads™ EpoxiSC

### Ordering info:

Cat No.	Size
MP161	4 mL
MP162	10 mL

### Description:

CaxBeads™ Epoxi SC are ferromagnetic beads coated with short chain of epoxy/oxirane on the surface of non-porous silica. The beads are used to covalently conjugate amine, sulfhydryl, or hydroxyl group-containing ligands. More preferable than CaxBeads™ Epoxi LC to immobilize higher proteins.

**Functional Group:** short chain epoxy/ oxirane.

### Applications:

- ✓ Covalent immobilization of Biomolecules in mild conditions pH 5-9, temperature between 4-37° C.

## CaxBeads™ Imidazol

### Ordering info:

Cat No.	Size
MP171	4 mL
MP172	10 mL

### Description:

It has a non-porous silica surface and histidine functional groups in the surface adsorption at low pH (4-5) and desorption at neutral/alkaline pH 7-8.

**Functional Group:** Thiol (-SH).

### Applications:

- ✓ Cell sorting.
- ✓ Immunoprecipitation.
- ✓ Adsorption of Nucleic acid.
- ✓ Adsorption of Biomolecules.
- ✓ Adsorption or isolation of Proteins.
- ✓ Immobilization of Enzymes by Crosslinking.
- ✓ Transfection of gene vectors to culture cell.

## CaxBeads™ Oleic

### Ordering info:

Cat No.	Size
MP181	4 mL
MP182	10 mL

### Description:

CaxBeads™ Oleic are ferromagnetic beads coated with oleic groups on the surface of non-porous silica. This particles are hydrophobic and only soluble in organic solvents as hexane, heptane, cyclohexane or dodecane.

**Functional Group:** Oleic acid (-CH<sub>2</sub>(CH<sub>2</sub>)<sub>7</sub>CH=CH(CH<sub>2</sub>)<sub>7</sub>COOH)

### Applications:

- ✓ Hydrophobic molecules adsorption.

## CaxBeads™ Polyamine

### Ordering info:

Cat No.	Size
MP191	4 mL
MP192	10 mL

### Description:

It has a thick coverage of polyamine and a very high density of primary amines in the surface. The particles are hydrophilic, stable in aqueous solutions, more stable when the amine groups are charged in mild acid pH.

**Functional Group:** Primary (-NH<sub>2</sub>) and secondary amines (-NH).

### Applications:

- ✓ Anionic exchange resin.
- ✓ Caption, adsorption, isolation or purification of Nucleic acid.
- ✓ Adsorption of Biomolecules.
- ✓ Adsorption or isolation of Proteins.
- ✓ Immobilization of Enzymes by Crosslinking.
- ✓ Gene vectors to culture cell Transfection.

## CaxBeads™ Thiol

### Ordering info:

Cat No.	Size
MP201	4 mL
MP202	10 mL

### Description:

CaxBeads™ Thiol are ferromagnetic particles coated with thiol functional groups on the surface. The beads are used to reversibly couple thiol-containing ligands and are most suitable for conjugation of large proteins.

**Functional Group:** Thiol (-SH).

### Applications:

- ✓ Immobilization of Biomolecules in mild conditions pH 5-9, temperature between 4-37 °C.

## CaxBeads™ Thiosulfate

### Ordering info:

Cat No.	Size
MP211	4 mL
MP212	10 mL

### Description:

CaxBeads™ Thiosulfate is a weak anionic resin with thiosulfate groups on surface. The beads allow the rapid release of very strong anions. These beads are specifically designed for easier and quicker fractionation of proteins/ peptides from complex biological samples.

**Functional Group:** Thiosulfate (-S<sub>2</sub>O<sub>3</sub><sup>2-</sup>)

### Applications:

- ✓ Weak anionic exchange resin.
- ✓ Biomolecules affinity purification.

## CaxBeads™ Tosyl

### Ordering info:

Cat No.	Size
MP221	4 mL
MP222	10 mL

### Description:

CaxBeads™ Tosyl is used to covalently conjugate any ligand (e.g. antibody, protein, peptide or glycoprotein) containing amino or sulfhydryl groups to the surface of the beads. After coating them with a ligand with affinity for the protein to be isolated (markers, receptors, enzymes), the resin can be used for protein purification.

**Functional Group:** Tosyl (CH<sub>3</sub>C<sub>6</sub>H<sub>4</sub>SO<sub>3</sub><sup>-</sup>)

### Applications:

- ✓ Cell sorting.
- ✓ Immunoprecipitation.
- ✓ Purification for antibodies, proteins, peptides and DNA.

## CaxBeads™ Triazine

### Ordering info:

Cat No.	Size
MP231	4 mL
MP232	10 mL

### Description:

CaxBeads™ Triazine is used to easily conjugate covalently any ligand containing amino groups to the surface of the beads.

**Functional Group:** Triazine chloride (-ClCN)<sub>3</sub>

### Applications:

- ✓ Covalent immobilization of Biomolecules in mild conditions pH 5-9, temperature between 4-37 °C.
- ✓ Covalent immobilization of large molecules.
- ✓ Adsorption of Biomolecules