

**MERCK**

# your Bio guide

**Ilanit 2026**



The Life Science business  
of Merck operates as  
MilliporeSigma in the  
U.S. and Canada.

# Custom Products Made in Israel

## Standard DNA Synthesis

### DNA Oligo Specifications

Synthesis Scales	0.025, 0.05, 0.02, 1.0, 10 and 15 $\mu$ mole mg - gram quantity manufacturing available upon request
Purification	Desalt, Cartridge, HPLC, PAGE See Oligonucleotide Purification Guidelines
Length	2-120 bases
Backbone	Phosphodiester / Phosphorothiate
Format	Dry or in Solution (normalized)
Modifications	Over 200 available, including dyes (fluorescent and non fluorescent)
Packaging	2 mL - 50 mL Tubes, Microtiter Plates
Quality Controls	MALDI-TOF MS, Electrospray Ionization MS, OD by UC Spectroscopy
Technical Datasheet and Labels	Includes yield, T <sub>m</sub> (melting temperature), MW, and $\mu$ g/OD Duplicate set of labels with each order
Additional Services	Concentration adjustment Aliquoting into tubes or well plates MSQC traces upon request

## DNA Oligos in Plates

Sigma can format your oligos to best suit your application as well as your automation and information requirements. Custom specifications can include:

- 96 or 384 well plates: Various plate types available
- Concentration normalization options with fixed or variable volumes
- Dried or in solution (water or TE)

## Custom Antibodies

- Production of polyclonal primary antibodies from rabbits and goats
- Production of small to large scale monoclonal antibodies up to gram quantities by bioreactors using serum free media
- Purification of polyclonal and monoclonal antibodies (Protein A or Affinity purification)
- Production of conjugated antibodies: Enzymes, Dyes, Biotin and Agarose
- Antibodies evaluation by a variety of immunoassays
- Purity determination by SDS Page or HPLC

## Custom Peptides Synthesis

Sigma-Aldrich/Merck Custom Peptide Synthesis Service offers numerous options for synthesis platforms, purity levels and modification formats to meet a variety of research needs. We synthesize peptides of 4–40 amino acids using the latest Fmoc solid-phase technology, and purify our products using HPLC. Synthesis scales range from 10 mg to 1 g, and purities from crude to 95%.

- Quality - synthesized using pure materials
- Versatility - a wide range of peptide grades, modifications, scales, and formats
- Validation - peptides analyzed by MS with analytical HPLC enhanced services – solubility test, AAA, packaging according to demand

# High value products Made in Israel



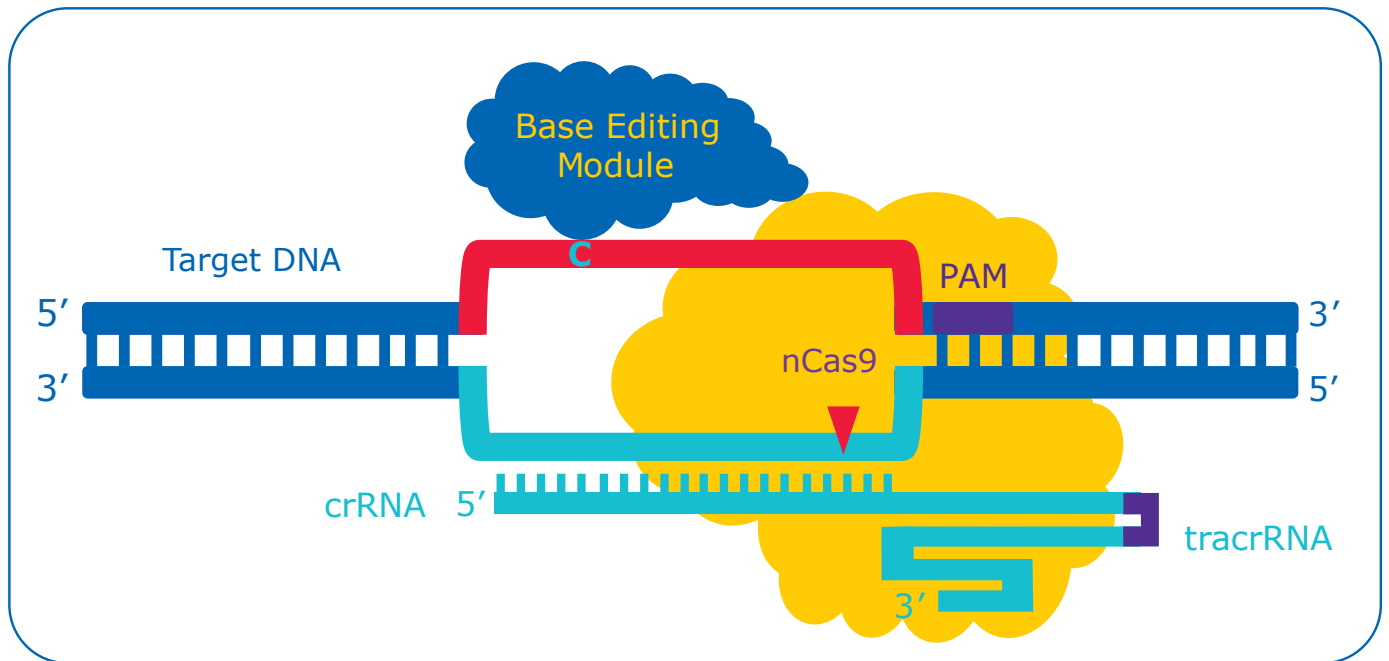
**MADE IN  
ISRAEL**

Anti tags Antibodies	Cat. Number
Anti-AcV5 antibody, Mouse monoclonal	A2980-100UL
Anti-AcV5 antibody, Mouse monoclonal	A2980-200UL
Anti-c-Myc-Peroxidase antibody, Mouse monoclonal	SAB4200742-1VL
Monoclonal Anti-c-Myc antibody produced in mouse	M5546-.2ML
Anti-Glutamine Synthetase antibody produced in rabbit	G2781-100UL
Anti-Glutamine Synthetase antibody produced in rabbit	G2781-.2ML
Anti-Glutathione-S-Transferase (GST) - Peroxidase Conjugate antibody produced in rabbit	A7340-.5ML
Anti-Green Fluorescent Protein (GFP) antibody, Mouse monoclonal	G1546-100UL
Anti-HA antibody produced in rabbit	H6908-100UL
Anti-HA antibody produced in rabbit	H6908-.2ML
Anti-HA antibody produced in rabbit	H6908-.5ML
Anti-polyHistidine - Peroxidase antibody, Mouse monoclonal	A7058-1VL
Anti-Tau antibody, Mouse monoclonal	T9450-100UL
Anti-τ (Tau) antibody produced in rabbit	T6402-.2ML
Anti-V5 antibody produced in rabbit	V8137-.2MG
Monoclonal Anti-Glutathione-S-Transferase (GST) antibody produced in mouse	G1160-.2ML
Monoclonal Anti-HA antibody produced in mouse	H9658-.2ML
Monoclonal Anti-polyHistidine antibody produced in mouse	H1029-100UL
Monoclonal Anti-polyHistidine antibody produced in mouse	H1029-.2ML
Anti-Glutathione-S-Transferase (GST) antibody produced in rabbit	G7781-100UL
Anti tags Antibodies - Magnetic beads	Cat. Number
Anti-HA Magnetic Beads	SAE0197-1ML
Anti-C-Myc Magnetic Beads	SAE0201-1ML
Anti-V5 Magnetic Beads	SAE0203-1ML
Microbiology Products	Cat. Number
Vitamin K1-Hemin ready made solution	MBD0043-10X10ML
Vitamin Mixture Solution	MBD0063-10ML
ExoPolyzyme	MBD0064-1VL
Hemin solution	MBD0052-10ML
MediaBoost	MBD0055-10ML
Trace Elements Ready Made Solution	MBD0056-50ML
MetaPolyzyme, DNA free	MAC4LDF-5X1VL
MetaPolyzyme with RNase inhibitor	MAC4LRI-5X1VL
DNA-free Buffers	Cat. Number
Trizma® hydrochloride solution	SBR00051-100ML
Water	MBD0025-10X1.5ML
Nucleic Acid Preservation buffer, microbial DNA free	MBD0054-100ML
Phosphate Buffered Saline	MBD0058-1ML & MBD0058-5X1ML
MUCIN Analysis	Cat. Number
Mucinase StcE Protease	SAE0202
Mucinase SmE Protease	SAE0220
Mucin Probe, StcE	SAE0212
Mucin Degradation Enzyme	SAE0219
RNA Synthesis	Cat. Number
T7 RNA Polymerase	RT7POL-5KU & RT7POL-25KU
Inorganic Pyrophosphatase from Escherichia coli	SAE0215-10U & SAE0215-50U
Antibody Drug Conjugates Enzyme	Cat. Number
Enhanced Microbial Transglutaminase (eMTG)	SAE0217-50UN & SAE0217-250UN & SAE0217-2000UN

# Base Editing Simplified:

## PUredit® Cas9 Cytosine Base Editors

PUredit® Cas9 Cytosine Base Editor proteins are your streamlined gene editing solution designed by our experts. Install precision C-to-T substitutions with high efficiency and reduced risk of off-target editing relative to plasmid format delivery.



### Get editing!

Convenient, easy-to-use reagents and tools: pair our PUredit® Cas9 Cytosine Base Editor Kits with our M-DNA-Base Editor Design Tool to easily select your guide RNAs for successful RNP experiments.

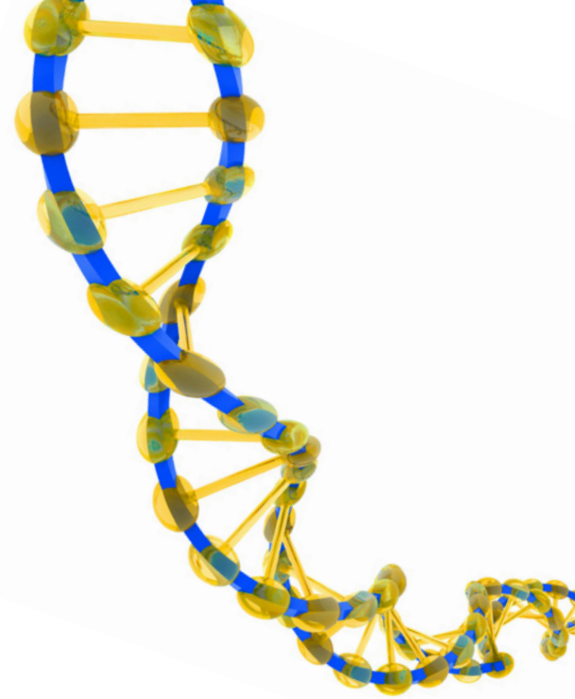


# GenElute™ kits

Our classical GenElute kits provide time-tested, efficient DNA purification with high yields and purity, using a simple silica spin-column format ideal for standard molecular biology applications.

## Ordering Information

Part No.	RXN	Product Description
PNL70 PNL350	70 350	GenElute™-Plasmid Miniprep Kit
NA0300 NA0310	10 25	GenElute™-HP Plasmid Maxiprep Kit
NA2100 NA2110 NA2120	10 70 350	GenElute™-Bacterial Genomic DNA Kit
G2N10 G2N70 G2N350	10 70 350	GenElute™-Plant Genomic DNA Miniprep Kit
RTN10 RTN70 RTN350	10 70 350	GenElute™-Mammalian Total RNA Miniprep Kit
G1N10 G1N70 G1N350	10 70 350	GenElute™-Mammalian Genomic DNA Miniprep Kits



## GenElute™-E single spin purification kits

### Greener nucleic acid purification

GenElute™-E kits utilize negative chromatography to efficiently purify nucleic acids by removing impurities like salts and proteins in a single centrifugation step. This streamlined process accelerates nucleic acid purification while minimizing handling. Unlike silica-based methods, GenElute™-E kits avoid chaotropic salts and organic solvents, enhancing performance in downstream applications such as PCR.

## Ordering Information

Cat. No.	RXN	Product Description
EC100 EC100 EC100	0 50 250	GenElute™-E Single Spin Blood DNA Kit
EC200 EC200 EC200	10 50 250	GenElute™-E Single Spin Blood DNA HiYield Kit
EC196 EC196	2 8	GenElute™-E Single Spin Blood DNA 96 Kit
EC300 EC300 EC300	10 50 25	GenElute™-E Single Spin Tissue DNA Kit
EC396 EC396	2 8	GenElute™-E Single Spin Tissue DNA 96 Kit
EC400 EC400 EC400	10 50 250	GenElute™-E Single Spin Cell Culture DNA Kit
EC500 EC500 EC500	10 50 250	GenElute™-E Single Spin Plant DNA Kit
EC596 EC596	2 8	GenElute™-E Single Spin Plant DNA 96 Kit
EC600 EC600 EC600	10 50 250	GenElute™-E Single Spin DNA Cleanup Kit
EC700 EC700 EC700	10 50 250	GenElute™-E Organic Solvent DNA Cleanup Kit
EC800 EC800 EC800	10 50 250	GenElute™-E Single Spin RNA Cleanup Kit
EC111 EC111	100 500	GenElute™-E Tissue Stabilizer
EC222 EC222	1 5	GenElute™-E RNA Gel Loading Buffer
EC9999	1	GenElute™-E Single Spin Cap Puncher

### Waste prevention



55% reduction of the consumption of plastic consumables (tubes, pipet tips) compared to silica-based kits

### Sustainable packaging



Sustainable forestry certification and more than 70% of recycled content in packaging. Starch-based, compostable bags for kit components

### Better usability



Simplified workflow with fewer steps

### Safer disposal



No hazardous liquid waste by eliminating bind and wash steps containing ethanol and chaotropic salts



**Find out more  
GenElute products!**

# Essential tools and technologies to streamline lab processes and enhance every step of your cell culture workflow

## Prepare

### Cell lines

- Mammalian Cell Lines
- Cancer Cell Lines
- iPS Cell Lines
- Multipotent Stem Cell Lines
- Mouse ES Cell Culture
- Organoids
- Cell Design Studio™



### Primary Cells

- Diverse Human and Animal Primary Cells



### MilliSentials™ Essential Lab Equipment for Productive, Efficient Labs

- Streamline your labeling – MilliSentials™ Lab Labeling System
- Enhance your liquid handling – MilliSentials™ Aliquoting Pipette controller
- Modernize your vortexer – MilliSentials™ Vortexer



### Comprehensive product range for Labware

- Pipettes
- Dispenser
- Volumetric Flasks
- Mixing Cylinders



### Cell Freezing Solutions

- Cell Freezing Media
- Cryoprotectants
- Cell Freezing Containers

### Sterile Filtration

- Sterile Millex® Filters
- Stericup® QR and Steritop® QR Filtration Systems
- Stericup® E and Steritop® E Filtration Systems
- Steriflip® Filters



### MilliQ® Water Purification Systems, Consumables & Services



Scan this to find amazing discounts on selected Cell Culture Essentials! Equip your lab with premium reagents and media for enhanced cell culture performance and research success.



**Millipore®**

Preparation, Separation, Filtration & Monitoring Products

**Sigma-Aldrich®**

Lab & Production Materials

**Milli-Q®**

Lab Water Solutions

# Grow



## Media

- Classical Media MEM, DMEM, RPMI
- Speciality Media



## Sera

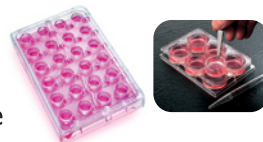
- Different Species & Sources
- Different Range of Treatments
- Fetal Bovine Serum for range of applications

## Buffers/Supplements/Growth Factors & Reagents

- Attachment Factors
- Biological Buffers
- Cell Dissociation
- Growth Factors
- Antibiotics
- Basal Salt Mixtures
- Transfection Reagents
- Inhibitors



**Millicell®** Hanging, Standing Inserts and 24 & 96-well Plates for Microporous Membrane-based Cell Culture



## 3D Cell Culture Portfolio

- Tissue-Specific Decellularized Extracellular Matrix (dECM) Hydrogels for Enhanced 3D Cell Cultures
- 3D Scaffolds
- Spheroid Formation Plates
- 3D Spheroid Cell Culture Media
- CytoSoft® Elastic Modulus Plates
- TrueGel3D™ HTS Hydrogel Plates for 3D Cell Culture and Drug Screening
- 3dGro™ Human iPSC Derived Colon Organoids
- 3dGro™ Human Lung Organoid Culture System

## Cell Proliferation Kit II (XTT)

A colorimetric assay for the quantification of cellular proliferation, viability, and cytotoxicity in adherent or suspension cells cultured in 96-well microplates.



## General Labware

**CORNING**  
**eppendorf** BRAND

## Millicell® EZ Slides

Culture, Fix, Stain and View in one device



# Analyze

## Scepter™ 3.0 Handheld Automated Cell Counter

Provides rapid cell counts and cell diameter/volume evaluation in a convenient, handheld instrument



## Millicell® ERS-2 Volt-Ohmmeter

Reliably measures Membrane Potential and Resistance of Epithelial Cells in Culture



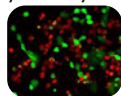
## Antibodies

As a leading antibody developer we provide high-quality reagents that are well-cited for use in Immunostaining, Blotting, Purification, ChIP, Flow Cytometry and Multiplexed Assays.

## Cellular Assays

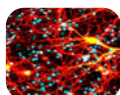
Quantitative, optimized cellular Activity Assays measure

Cell Viability, Proliferation, Toxicity, Apoptosis, Oxidative Stress, Migration and more.



## Live Cell Imaging Reagents

Fluorescent Dyes, Probes and Biosensors



## SMCxPRO™ System

Single Molecule Counting Technology



## MILLIPLEX® Kits

Multiplex Biomarker Detection & Luminex Hardware



## Hematology, Cytology, Histology

Dyes, Stains  
Fixing Media: M-FIX™  
Anhydrous Mounting Medium: Neo-Mount®  
Control Slides with reference tissue ISOSLIDE®

## CellASIC® ONIX2 Microfluidics System

For precision control of your cell culture environment, enabling advanced live cell imaging and microscopy



## MultiScreen® 96- and 384- well plates

applicable for a broad range of applications



## Millicell® DCI Digital Cell Imager

Quickly and objectively assess confluency, morphology, and growth trends for more consistent cell cultures



# Looking for highly characterized Antibodies?

Merck has over 70,000 widely published primary antibody from many of the brands you know and trust: Prestige Antibodies®, ZooMAb® recombinant Antibodies, Chemicon®, Calbiochem®, Upstate®, Sigma-Aldrich® and Millipore®.

As a leading antibody supplier, we invite you to choose from our comprehensive portfolio.



## Primary Antibodies

Primary antibodies play a role in locating, detecting, identifying, and quantifying a target molecule. They directly bind to the antigen protein of interest. Primary antibodies can be produced as polyclonal, monoclonal, or recombinant antibodies.



## Secondary Antibodies

We offer secondary antibodies from a variety of host species. Our polyclonal secondary antibodies are produced from the serum of host animals such as mice, rabbits, goats, and sheep. Whereas our monoclonal secondary antibodies are produced from mouse hybridoma clones.

- **Secondary Antibodies**
- **Conjugated Antibodies and Probes**
- **Protein A, G, and L**
- **CF™ Dye Labeled Antibodies**



## Prestige Antibodies®



We have partnered with Atlas Antibodies to provide the “prestigious” HPA developed antibodies to researchers worldwide. Designed to detect and target over **80% of the human proteome**, all Prestige Antibodies® are tested in a series of validation steps to ensure that they are the most specific products on the market.



## ZooMAb® recombinant monoclonal



**Reproducible, greener, animal-free, preservative free.** Each antibody is validated to reliably perform across multiple applications, including its most used application.



## Small Pack Size Antibody

We offer small pack size antibodies in 25µg or 25 µl for convenient and economical access to our highly characterized antibodies.

## Need Help Finding The Correct Antibody for Your Application?

Use our Antibody Explorer search tool to view and compare antibodies by clonality, application, species, reactivity, conjugate, host species, and form.

## Check out our Antibody Guarantee!



We invite you to evaluate our antibody products with complete peace of mind.

If the antibody does not perform in applications described in our documentation, including product listings on our websites, catalogues or data sheets - we will issue a full credit or replacement antibody.

<https://www.sigmaaldrich.com/IL/en/products/protein-biology/antibodies>



# Amplified Detection

## Duolink® Proximity Ligation Assay (PLA)

Duolink® PLA protein detection technology is based on *in situ* proximity ligation assay (PLA), and allows for the detection, visualization, and quantification of protein expression, protein-protein interactions, and post-translational modifications, in unmodified cells and tissue samples within a matter of hours.

Duolink® PLA utilizes a pair of oligonucleotide-labeled secondary antibodies (PLA probes). Signal is generated only when the two PLA probes have bound in close proximity. Rolling-circle amplification (RCA) provides up to 1000-fold increase in the signal from each detected pair of PLA probes, visualized as an individual fluorescent spot. These PLA signals can be quantified and assigned to a specific subcellular location based on cellular images.

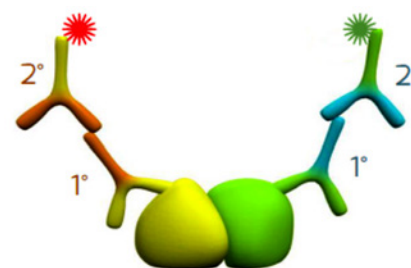
### Features & Benefits

Duolink® PLA has several advantages over traditional immunodetection methods:

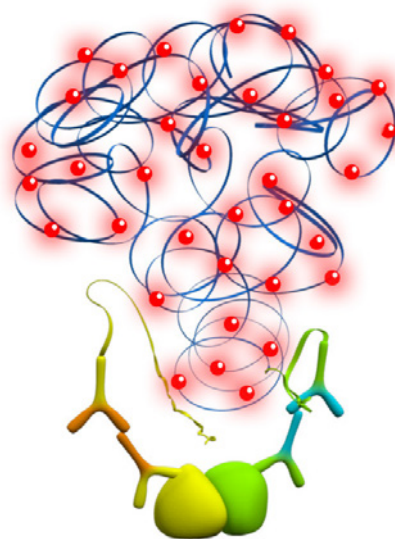
- Visualize protein interactions – stable, transient, or weak interactions
- Detect endogenous proteins – no overexpression or genetic manipulation
- High specificity – use of two antibodies/probes eliminates false positives
- Single molecule sensitivity – rolling circle amplification makes proteins visible
- No special equipment needed – standard immunofluorescence methods
- Publication-ready results – visual data confirms proteins and interactions

### Assay Principle

Duolink® PLA combines the specificity of secondary antibodies with the sensitivity afforded by rolling circle amplification (RCA) to detect endogenous proteins in fixed cells and tissues. The most common usage of Duolink® PLA technology is for the *in situ* detection of protein-protein interactions. Two primary antibodies (raised in different species) are used to detect two different protein targets. A pair of secondary antibodies conjugated with oligonucleotides (PLA PLUS and MINUS probes) bind specifically to the primary antibodies. The PLA probes will participate in RCA only when the PLUS and MINUS oligonucleotides are in close proximity (<40nm). This reaction results in up to 1000-fold amplification. Labeled complementary oligonucleotides allow detection by microscopy or flow cytometry.



Immunodetection with traditional Secondary Antibodies



Immunodetection with Duolink® PLA

### Resources

In addition to the Duolink® PLA Protocols for Fluorescence, Brightfield, and Flow Cytometry, be sure to visit our online resource center for details on how to successfully set up and execute a Duolink® PLA experiment.

- How to Optimize the Duolink® Proximity Ligation Assay (PLA)
- Product Selection Guide
- Troubleshooting & FAQ
- Instructional videos and more



For more information, visit [SigmaAldrich.com/duolinkpla](https://www.sigmaaldrich.com/duolinkpla)

# All Labware Supplies

## Thousands of labware products for your bench

Here are a few examples



**Corning® Plasticware**



**Whatman® qualitative  
filter paper**

GE28-9489-64



**MagRack™ 6**

Z108812-1EA



**Zerostat anti-static  
instrument**

MTC8403SK-1EA



**MTC™ Bio BenchBin™  
3 L Bin + 400 bags**

HS28721G - 1 L, green  
HS28724B - 4 L, blue  
HS28729R - 9 L, red  
HS28714K - 4 L, black



**TrueNorth® Cool  
Container with Lid**

Z359629-1EA



**Bright-Line™  
Hemacytometer**

Z672548-1EA



**Advanced PAP Pen**

Z359971-1EA (motor)  
BAF199230000-100EA  
Plastic Pellets + 1.5ml tubes



**Cordless motor &  
Pellet pestles**

D8938-1SET (2ml)  
D9063-1SET (7ml)  
D9938-1SET (15 ml)  
D9188-1SET (40 ml)



**Dounce tissue  
grinder set**

CLS432000-1EA (12x2 mL)  
CLS432011-1EA (6x10 mL)



**Corning® CoolCell™  
Freezing Containers**

CLS432133 - 2.5 L, green  
CLS432127 - 4 L, pink



**Corning® Ice Bucket  
with lid, round**



Find out more labware products!  
[SigmaAldrich.com/labware](http://SigmaAldrich.com/labware)



New in our catalogue!  
Find out more

**MTC Bio**  
MTC Bio Incorporated

Contact Customer Service for more details:  
08-9484100 | [iscustserv@merckgroup.com](mailto:iscustserv@merckgroup.com)

# Working with Partners of Choice:



# six life science brands

at the nucleus of innovation



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