

We promote science and  
technology for the better life.

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## Company Background



### Smart Science Group Companies

was established in 2015. We are a distributor of life science and medical science research products. We provide the high-quality scientific products to assure that our customer will obtain the best possible scientific research solutions and services. Moreover, we have our sales and product specialist team who have the sufficient knowledge to understand customer requirements and fulfill them with the best possible solution. We have the mastering to provide more reasonable priced products to our customers without the sacrifice of quality.

We value the opportunity to assist our clients to deliver the new products and accomplish the research works and to build a long-term successful partner relationship.

### Company Strategy

**Our purpose :** To promote science and technology for the better life

**Our vision :** One stop shop for all life science & medical science technology expertise

**Our mission :** To serve our clients as the most trusted partner and fully satisfaction

**Our values :** Customers, people, financial performance, sustainability, our partner

### บริษัทในเครือ สมาร์ท ไชออนซ์



บริษัท สมาร์ท ไชออนซ์ จำกัด

We supply fine chemicals, reagents and all life science research products.



บริษัท เอส ไบโอเทค จำกัด

We supply lab consumables and lab equipment.

### Product Range

*"A great choice for life science research"*



Chemicals / Reagents



Microbiology



Cell & Molecular Biology



Protein & Enzyme research



Plant Tissue Culture

### Product Range



Liquid Handling



Cell Tissue Culture supplies



Lab Equipment



Lab Plasticware & Glassware

### Our Partners

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enzymatics

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# Product Overview

## Chemicals / Reagents



| Product Name                        | Brand                     | Page     |
|-------------------------------------|---------------------------|----------|
| Amino Acids                         | Glentham                  | 4        |
| Antibiotics                         | Glentham, Goldbio         | 4, 6     |
| APIs                                | Glentham                  | 4        |
| Analytical Reagents                 | Qrec                      | 8        |
| Biochemicals                        | Glentham, Goldbio         | 4, 6     |
| Buffers                             | Glentham, Goldbio, Qrec   | 4, 6, 8  |
| Enzymes                             | Glentham, Goldbio, Prospe | 4, 6, 18 |
| High Purity Solvents (LC-MS / HPLC) | Qrec                      | 8        |
| Industrial Grade Chemical           | China                     | 8        |
| Inorganics                          | Glentham                  | 4-5      |
| Raw Materials (IVD)                 | Glentham                  | 5        |
| Solvents                            | Glentham, Qrec            | 4, 8     |

## Cell & Molecular Biology



| Product Name                             | Brand                     | Page       |
|------------------------------------------|---------------------------|------------|
| DNA / RNA Extraction Kit                 | Biofact, Geneaid          | 12, 13     |
| PCR Enzyme / RT-PCR                      | ABM, Biofact, Enzynomics  | 11, 12, 15 |
| Real-Time PCR                            | Biotium, ABM, Enzynomics  | 10, 11, 15 |
| DNA Electrophoresis                      | ABM, SBIO, Enzynomics     | 11, 14, 15 |
| Gene Cloning / Vector                    | Goldbio, ABM, Enzynomics, | 6, 11, 15  |
| Restriction Enzyme                       | Enzynomics                | 15         |
| Competent Cells (AG/BL21/ DH5/ DL39)     | Goldbio                   | 7          |
| Cell Lines (Primary/ Immortalized Cells) | ABM                       | 15         |
| Cell Culture Medium / Sera               | Caisson Lab               | 19         |
| RNAi / miRNA                             | ABM                       | 15         |
| CRISPr / Cas9                            | ABM                       | 15         |
| Fluorescent Dye (Cell Stain)             | Biotium                   | 10         |
| Flow cytometry                           | Biotium                   | 10         |
| Luciferase Assay Kits                    | Goldbio                   | 6          |

## Protein & Enzyme



| Product Name                      | Brand                      | Page     |
|-----------------------------------|----------------------------|----------|
| Protein Extraction / Purification | Goldbio, ABM               | 7, 11    |
| Protein Electrophoresis           | Glentham, Goldbio, ABM     | 4, 7, 11 |
| Western Blot Analysis             | Glentham, Goldbio, ABM     | 4, 7, 11 |
| Primary / Secondary Antibodies    | Abbkine, Boster            | 16, 17   |
| Antibody & Protein Labeling Kits  | Goldbio, Biotium           | 7, 10    |
| Recombinant protein (Peptide)     | PROSPEC                    | 18       |
| Cytokine / Growth Factor          | PROSPEC                    | 18       |
| ELISA Kit                         | Abbkine, Boster            | 16, 17   |
| Enzymes                           | Glentham, Goldbio, PROSPEC | 5, 7, 18 |
| Hormone                           | PROSPEC                    | 18       |
| VIRAL ANTIGENS / Natural Protein  | PROSPEC                    | 18       |

## Microbiology



| Product Name                    | Brand                | Page   |
|---------------------------------|----------------------|--------|
| Dehydrated Culture Media        | Formedium, TM Media  | 20, 21 |
| Biological Media Bases          | Formedium, TM Media  | 20, 21 |
| Ready to use Media              | TM Media             | 20     |
| DROP-OUT SUPPLEMENTS            | Formedium            | 21     |
| Antibiotic Sensitivity Discs    | TM Media             | 20     |
| Biological Indicators           | TM Media             | 20     |
| Microbiological Lab Consumables | TM Media, Jet Biofil | 20, 26 |

## Plant Tissue Culture



| Product Name                           | Brand              | Page  |
|----------------------------------------|--------------------|-------|
| Plant Media (MS / Chu / Gamborg / WPM) | Phytotech          | 22    |
| Plant Growth Regulators                | Goldbio, Phytotech | 7, 22 |
| Carbohydrates                          | Phytotech          | 22    |
| Amino Acids                            | Phytotech          | 22    |
| Vitamins                               | Phytotech          | 22    |
| Macronutrients / Micronutrients        | Phytotech          | 22    |
| Gelling Agent (Agar / Gellan Gum)      | Goldbio, Phytotech | 7, 22 |
| Plant Preservative Mixture (PPM™)      | Caisson Lab        | 19    |

## Services



| Product Name                   | Brand           | Page   |
|--------------------------------|-----------------|--------|
| Oligo Synthesis (Primer)       | Macrogen        | 9      |
| Sequencing : standard, NGS     | Macrogen        | 9      |
| Gene Synthesis                 | Macrogen        | 9      |
| Recombinant Protein Expression | Abbkine, Boster | 16, 17 |
| Custom Antibody Production     | Abbkine, Boster | 16, 17 |



## Lab Plasticware & Glassware

| Product Name               | Brand            | Page   |
|----------------------------|------------------|--------|
| <b>Plastics ware</b>       |                  |        |
| Beakers                    | Glassco          | 24     |
| Cell Tissue Culture Supply | Jet Biofil       | 26     |
| Micro-centrifuge Tube      | Jet Biofil       | 26     |
| Cryo Vial                  | Abdos            | 25     |
| Cylinder                   | Glassco          | 24     |
| ELISA Plate                | Jet Biofil       | 26     |
| Flask                      | Glassco          | 24     |
| Microbiology Supply        | Jet Biofil       | 26     |
| Petri Dish                 | Glassco          | 24     |
| Pipette Tip                | Abdos            | 25     |
| Serological Pipette        | Jet Biofil       | 26     |
| Rack, Box                  | Abdos            | 25     |
| <b>Glass ware</b>          |                  |        |
| Beaker                     | Duran, Glassco   | 24     |
| Bottle                     | Duran, Glassco   | 24     |
| Burette                    | Duran, Glassco   | 24     |
| Cylinder                   | Duran, Glassco   | 24     |
| Desiccator                 | Duran, Glassco   | 24     |
| Flask                      | Duran, Glassco   | 24     |
| Petri Dish                 | Duran, Glassco   | 24     |
| Test Tube                  | Duran, Glassco   | 24     |
| Volumetric Pipette         | Duran, Glassco   | 24     |
| <b>Paper</b>               |                  |        |
| Extraction Timber          | Johnson          | 31     |
| Filter Paper               | Johnson          | 31     |
| Membrane Filter            | Biofact, Johnson | 12, 31 |
| pH Indicator Strip         | Johnson          | 31     |
| Syringe Filters            | Biofact, Johnson | 31     |
| Test Strip                 | Johnson          | 12, 31 |



## Lab Equipment

| Product Name                    | Brand                     | Page       |
|---------------------------------|---------------------------|------------|
| Autoclave                       | CRYSTE                    | 30         |
| Balance                         | RADWAG                    | 30         |
| Bio Safety Cabinet              | CRYSTE                    | 30         |
| Centrifuge                      | Benchmark, ONILAB, CRYSTE | 28, 29, 30 |
| Dispenser                       | ONILAB                    | 29         |
| Dry Bath (Heating Block)        | Benchmark, ONILAB         | 28, 29     |
| Electrophoresis system          | Accuris, Cleaver          | 28, 31     |
| Gel Documentation               | UVITEC, Cleaver           | 30, 31     |
| Homogenizers / Cell lysis       | Benchmark                 | 28         |
| Hotplates & Stirrers            | Benchmark, ONILAB         | 28, 29     |
| Incubators / Shaking Incubators | Benchmark, ONILAB, CRYSTE | 28, 29, 30 |
| Immuno Analyzer                 | Micro Digital             | 30         |
| Immuno Blotter                  | Cleaver                   | 31         |
| Moisture Analyzer               | RADWAG                    | 30         |
| Nanodrop                        | Micro Digital, Jenway     | 30, 31     |
| Oven                            | CRYSTE                    | 30         |
| Pipette                         | Wattson, ONILAB           | 27, 29     |
| PCR                             | Benchmark, PCR Max        | 28, 30     |
| Power Supply                    | Accuris, Cleaver          | 28, 31     |
| pH Meter / Conductivity Meter   | APERA                     | 31         |
| Real Time PCR                   | PCR Max                   | 30         |
| Roller / Rockers and Rotators   | Benchmark, ONILAB         | 28, 29     |
| Rotary Evaporator               | ONILAB                    | 29         |
| Shakers                         | Benchmark, ONILAB         | 28, 29     |
| Spectrophotometer               | Jenway                    | 31         |
| Sterilization                   | Benchmark, CRYSTE         | 28, 30     |
| Transluminator (UV / LED)       | Cleaver                   | 31         |
| Vortex Mixture                  | Benchmark, ONILAB         | 28, 29     |

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# Glentham LIFE SCIENCES

(UK)

**Glentham Life Science** is a leading supplier of fine chemicals, raw materials, reagents and life science products. Glentham provide the highest quality chemicals for research and production.

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## Analytical Reagents

A comprehensive range of high quality organic and inorganic laboratory reagents, for use in analytical applications such as chromatography and titration. Key chemical products in this category include acids, bases, solvents, inorganics and other laboratory essentials.

## Antibiotics

A wide range of common, specialist and rare antibiotics suitable for use in applications such as in vitro diagnostics, cell culture and pharmaceutical research. Key chemical products in this category include Kanamycin monosulfate salt, Pencillin G potassium salt and Streptomycin sulfate.

## Amino Acids

A complete range of high quality amino acids, including a variety of L-, D- and DL- isomers. The products in this category are suitable for a wide range of applications, including peptide synthesis and cell culture media. Bestsellers include Arginine, Glycine and Tryptophan.

## APIs

Our Active Pharmaceutical Ingredients are supplied for use in a variety of research areas, including drug discovery and cancer research. Generics, pharmacopoeia grade APIs, antibiotics and other pharmacologically active compounds can be found in this range.

## Biochemicals

A comprehensive, combined list of chemicals and biochemicals from other key ranges, including amino acids, antibiotics and biological buffers. Additional products in this range include small bioactive molecules that are not found in our APIs range.

## Buffers

A complete range of biological buffers such as ACES, HEPES, MOPS and TRIS are essential for the majority of our customers, who use this range of products for cell culture media, bioactive molecule stabilization and pH control. Ultrapure grades are available for many of these products.

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# Glentham LIFE SCIENCES

## Vitamins

High quality vitamins for in vitro diagnostics, nutrition research and cell biology applications. Some of our strongest biochemical products belong to this range, including Folic acid, Vitamin B12 and Vitamin C.

## Detergents

Detergents and surfactants suitable for research, diagnostics and industrial applications. Key products from this range include Polysorbate 20, Polysorbate 80, Brij 35 (Laureth-23) and Cholic acid.

## Enzymes

A range of high quality recombinant enzymes, including DNA polymerases, reverse transcriptases, DNA ligases and proteases. These are suitable for use in PCR, in vitro diagnostics and other analytical applications.

## Nucleosides & Nucleotides

We offer nucleosides & nucleotides for pharmacology, cell biology and molecular biology applications. Key products include ADP, ATP disodium salt and 2'-Deoxyguanosine monohydrate.

## Chitosan & Natural Polymers

This is our very popular and expanding range of natural polymers. Our strongest products include Chitin and Chitosan available with a range of viscosities, for laboratory and industrial use. Other key natural polymers include DEAE-Cellulose and a range of Dextran products.

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A range of high quality dyes, stains and indicators suitable for haematology and histology (nucleic acids and proteins), in vitro diagnostics, general laboratory use (pH indication) and industrial applications. Best sellers include Bromocresol Green, Oracet Blue and Sudan Black.

## Peptide Reagents

A comprehensive range of reagents used in peptide coupling, with best sellers including EDC hydrochloride, HATU and Trifluoroacetic acid.

## Phytochemicals

A wide range of phytochemicals, plant extracts and alkaloids, with key compounds including Corosolic acid, Nicotine and Resveratrol.



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Products of exceptional quality, suitable for use in Ion Pair Chromatography. Fully tested for UV absorption, our products are manufactured to reach the stringent requirements of reversed phase HPLC analysis.

## Raw Materials (IVD)

A comprehensive range of chemicals offered in bulk for the in vitro diagnostics market, including antibiotics, biological buffers and sugars. Key products include DL-Dithiothreitol, Lithium chloride and Sodium pyruvate.

## Thiocyanates

A compact product range, containing some of our most competitive and popular products. Ammonium thiocyanate, Guanidine thiocyanate and Potassium thiocyanate are bulk best sellers.

## Carbohydrates

A comprehensive range of high quality monosaccharides, disaccharides, polysaccharides and derivatives that are essential for cell culture, in vitro diagnostics, molecular biology and biochemistry. Our bestsellers from this range include Glucose, Mannitol and Trehalose.

## Sugars

A range of commonly-used sugars for research, diagnostics and industrial manufacturing, including monosaccharides, disaccharides, polysaccharides and derivatives. Our best sellers from this range include L-Fucose, Sucrose and Xylose.

## Substrates

A range of enzyme substrates for use in research and in vitro diagnostic applications. Key products include IPTG, PNPP and Sodium Pyruvate.

## Steroids

Our range of steroids for research including androgens, estrogens, corticosteroids, D vitamins and cholesterol based products.





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- Hygromycin B
- Kanamycin Monosulfate
- Nourseothricin Sulfate
- Vancomycin Hydrochloride



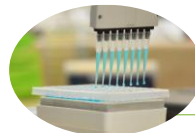
### Buffers and Additives

- |            |                    |                              |
|------------|--------------------|------------------------------|
| • ACES     | • MOPSO            | • Adenine                    |
| • ADA      | • PBS              | • AMP , ATP                  |
| • BES      | • PIPES            | • BSA (Bovine Serum Albumin) |
| • Bicine   | • TAPS             | • D-Arabinose / L-Arabinose  |
| • Bis-Tris | • TCEP-HCl         | • D-Mannitol                 |
| • CAPS     | • TES              | • Folic Acid                 |
| • CHES     | • Tricine          | • Myo-Inositol               |
| • Glycine  | • <b>Tris Base</b> | • <b>NAD / NADH</b>          |
| • HEPES    | • Tris HCl         | • Nicotinamide (Vitamin B3)  |
| • HEPPSO   |                    | • Pyridoxine HCl             |
| • MES      |                    | • Riboflavin                 |
| • MOPS     |                    | • Thiamine HCl               |



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- D-Luciferin, Sodium Salt
- DMNPE-Caged Luciferin
- Coelenterazine
- Luminol, Sodium Salt
- Illumination™ Series Luciferase Assay Kits
- Firefly & Renilla Luciferase Enhanced Assay Kit
- 5X Luciferase Lysis Buffer



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- Pfu DNA Polymerase
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- DL39(DE3),
- Agrobacterium
- L. lactis, SS320
- TG1 Phage



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  - Magenta-Gal
  - MUG
  - NBT
  - PNPG (Gus)
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  - X-α-Gal
  - **X-Gal**
  - **X-Gluc (CHX Salt)**
- **Enzymes**
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  - Elastase, Porcine Pancreas
  - Glucose Oxidase
  - Horseradish Peroxidase (HRP)

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## Analytical Reagents

QReC offers about 2,000 kinds of Analytical reagents including General Reagents & Special purpose reagents.

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## Product List

- Acetic Acid Glacial, AR (2.5 L)
- Acetone, AR (2.5 L)
- Acetone, AR (4 L)
- Ammonia Solution 25%, AR (2.5 L)
- Ammonia Solution 28-30%, AR (2.5 L)
- Ammonium Acetate, AR (500 g)
- Ammonium Chloride, AR (500 g)
- Ammonium Fluoride, AR (500 g)
- Amm. Monovanadate, AR (100 g)
- Amm. Peroxodisulfate, AR (500 g)
- Buffer Solution pH 10 (1 L)
- Buffer Solution pH 4.00, (1 L)
- Buffer Solution pH5, (1L)
- Buffer Solution pH 7, (1 L)
- Buffer Solution pH 9.18, (1L)
- Barium Chloride Dihydrate, AR (1 kg)
- Benzene, AR (2.5 L)
- Boric Acid, AR (500 g)
- Bromine Water Saturated Solution (500 ml)
- Bromophenol Blue, AR (10 g)
- Chloroform, AR (2.5 L)
- Citric Acid Monohydrate, AR (1 kg)
- Cyclohexane, AR (2.5 L)
- Dichloromethane, AR (2.5 L)
- Diethyl Ether, AR (2.5 L)
- Diethyl Ether, AR (4 L)
- D(-)-Mannitol, AR (500 g)
- Eriochrome Black T, AR (25 g)
- Ethanol Absolute 99.9%, (Denatured), AR (2.5 L)
- Ethanol Absolute 99.9%, (Denatured), AR (4 L)
- Ethanol Absolute 99.9%, (Denatured), AR (4 L)
- Ethyl Acetate, AR (2.5 L)
- Ethylene Glycol, AR (2.5 L)
- EDTA, Di-Sod. Salt Dihydrate, AR (500 g)
- EDTA, Di-Sod. Salt Dihydrate, AR (1 kg)
- EDTA, Di-Sod. Salt, Sol. 0.05 mol/l (0.1 N) (1 L)
- EDTA, Di-Sod. Salt, Sol. 0.1 mol/l (0.2 N) (1 L)
- Hydrochloric Acid 37%, AR (2.5 L)
- Hydrochloric Acid 37%, AR (5 L)
- Hydrochloric Acid, Sol. 0.1 mol/l (0.1 N) (1 L)
- Hydrochloric Acid, Sol. 0.5 mol/l (0.5 N) (1 L)
- Hydrochloric Acid, Sol. 1 mol/l (1 N) (1 L)
- Hydrochloric Acid, Sol. 6 mol/l (6 N) (1 L)
- Hydrogen Peroxide 30%, AR (1Kg)
- Hydrogen Peroxide 30-32%, AR (2.5L)
- Hydroxylamine Hydrochloride, AR (500 g)
- Iodine, Solution 0.05 mol/l (0.1 N) (1 L)
- Iron (III) Chloride Hexahydrate, AR (500 g)
- Lead (II) Nitrate, AR (500 g)
- Magnesium Sulfate Anhydrous, AR (500 g)
- Magnesium Sulfate Anhydrous, AR (1 Kg)
- Manganese(II)Sulfate Monohydrate, AR(500 g)
- Mercury (II) Nitrate Monohydrate, AR (100 g)
- Mercury (II) Sulfate, AR (100 g)
- Methanol, AR (2.5 L)
- Methyl Orange, C.I. 13025 Indicator (25 g)
- Methyl Red, C.I. 13020 Indicator (25 g)
- Murexide, Indicator for metal titration (25 g)
- Hexane, AR Grade (4L)
- Nitric Acid 69%, AR (2.5 L)
- Nitric Acid 65%, AR (2.5 L)
- Ortho-Phosphoric Acid 85%, AR (2.5 L)
- Oxalic Acid Dihydrate, AR (500 g)
- Phenolphthalein, Indicator (100 ml)
- Potassium Bromide, AR (500 g)
- Potassium Chloride, AR (1 kg)
- Potassium Dichromate, AR (500 g)
- Pot. Hexacyanoferrate (III), AR (500 g) 5
- Pot. Hydroxide Pellet, AR (1 kg)
- Pot. Hydroxide, Sol. 0.1 mol/l (0.1 N) (1 L)
- Potassium Iodide, AR (500 g)
- Potassium Iodide, AR (1 kg)
- Potassium Sulfate, AR (1 kg)
- Potassium Thiocyanate, AR (500 g)
- 2-Propanol, AR (2.5 L)
- 2-Propanol, AR (4 L)
- 2-Prapanol, HPLC Grade (2.5L)
- Silver Nitrate, AR (100 g)
- Silver Nitrate, AR (100 g)
- Silver Nitrate, Sol. 0.1 mol/l (0.1 N) (1 L)
- Sodium Acetate Anhy, AR (500 g)
- Sodium Acetate Anhy., AR (1 kg)
- Sodium Bromide, AR (500 g)
- Sodium Chloride, AR (1 kg)
- Sod. Dichromate Dihydrate, AR (500 g)
- Sodium Hexametaphosphate, AR (1 kg)
- Sodium Hydrogen Carbonate, AR (1 kg)
- Sodium Hydroxide Pellets, AR (500 g)
- Sodium Hydroxide Pellets, AR (1 kg)
- Sod. Hydroxide, Sol. 0.2 mol/l (0.2 N) (1 L)
- Sod. Hydroxide, Sol. 0.5 mol/l (0.5 N) (1 L)
- Sod. Hydroxide, Sol. 1 mol/l (1 N) (1 L)
- Sodium Nitrite, AR (500 g)
- Sodium Bisulfite, Extra Pure (500g)
- Sod. Thiosulfate Anhydrous, AR (500 g)
- Sod. Thiosulfate Pentahydrate, AR (1 kg)
- Starch Soluble, AR (500 g)
- Sulfuric Acid 95-97%, AR (2.5 L)
- Sulfuric Acid 98%, AR (2.5 L)
- Sulfuric Acid 98%, AR (4 L)
- Sulfuric Acid, Sol. 0.5 mol/l (1 N) (1 L)
- Sulfuric Acid, Sol. 1 mol/l (2 N) (1 L)
- Tetrahydrofuran, AR (2.5 L)
- Terpinolol, Grade AR ( 500 ml)
- Toluene, AR (2.5 L)
- Toluene, AR (4 L)
- Xylenol Orange, Tetrasodium salt, AR
- Zinc Oxide, Exp (500 g)

## Industrial Grade Chemical

- Ethyl Alcohol 95%
- Ethyl Alcohol 95% Food Grade
- Ethyl Alcohol 99% (DEB100)
- Ethyl Alcohol 70%
- IPA : Isopropyl Alcohol
- Aceton : อะซิโตน
- PHOSPHORIC ACID 85%
- Texapon N70
- Texapon N8000
- ฟองเบ็ด / BAEF
- Neopelex F-50 (สารขัดคราบ 50%)
- Senol FT-24
- EMAL 28CT (หัวเข็มนพ)
- กลีเซอริน (Glycerine) ฝ้า
- โซดาไฟน้ำ 32%
- SULFURIC ACID 50% / กรดกำมะถัน 98%
- คลอรีนน้ำ 10% (Sodium hypochlorite)
- กั้นเนอร์ AAA
- กรดน้ำส้ม (Acetic acid)
- ไตรโพรไพลีนไกลคอล / Dipropylene Glycol (DPG)
- โพรพิลีนไกลคอล (Propylene glycol)
- คลอรีนผง 90%
- เมสบู๋ ยุ่น / ไซ
- กรดเกลือ 35% Hydrochloric acid
- กรดซิตริก / กรดมะนาว (Citric acid)
- กรดซัลฟูริก (Sulfuric acid) กรดกำมะถัน
- ไวท์มัสค์ (White Musk)
- XIAMETER AFE 1520

Ethyl Alcohol 70%-99%  
สำหรับฆ่าเชื้อโรค  
(4L, 20L, 200L)



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**Macrogen** provides Sequencing analysis (CES, NGS), Biochip analysis (Microarray), Oligo synthesis, Genetically engineered mice (GEM), Bioinformatics and other services required for biotechnology and clinical research.

### บริการสังเคราะห์ไพรเมอร์

**The synthesized oligos (Primer)** are used in various biology and medical fields such as DNA sequencing, PCR, SNP study, gene synthesis, NGS service, qPCR service, biochip and siRNA expression.

### Modified Oligos

#### Internal Modification

- Deoxyinosine (dI)

#### 3' Modification

- 3'C3 Spacer
- 3'Phosphorylation
- 3'Biotin
- 3'BHQ1
- 3'BHQ2
- 3'BHQ3
- 3'BBQ650
- 3'Dabcyl
- 3'Eclipse

#### 5' Modification

- 5'Phosphorylation
- 5'NH<sub>2</sub> C6
- 5'NH<sub>2</sub> C12
- 5'Biotin
- 5' Thiol C6 S-S
- 5'C3 Spacer
- 5'dSpacer
- 5'FAM
- 5'HEX
- 5'TET
- 5'TAMRA
- 5'JOE
- 5'CY3
- 5'CY3.5
- 5'CY5
- 5'CY5.5
- 5'CAL Fluor560

#### Dual-Labeled DNA Probes

- 5'FAM-3'BHQ1
- 5'HEX-3'BHQ1
- 5'HEX-3'BHQ2
- 5'TET-3'BHQ1
- 5'TET-3'BHQ2
- 5'TAMRA-3'BHQ1
- 5'TAMRA-3'BHQ2
- 5'JOE-3'BHQ1
- 5'JOE-3'BHQ2
- 5'CY3-3'BHQ1
- 5'CY3-3'BHQ2
- 5'CY3-3'BHQ3
- 5'CY5-3'BHQ2
- 5'CY5-3'BHQ3
- 5'CAL Fluor560-3'BHQ1
- 5'FAM-3'TAMRA
- 5'HEX-3'TAMRA
- 5'TET-3'TAMRA
- 5'JOE-3'TAMRA
- 5'FAM-3'Dabcyl
- 5'HEX-3'Dabcyl
- 5'TET-3'Dabcyl
- 5'TAMRA-3'Dabcyl
- 5'JOE-3'Dabcyl

### Download Primer Order form



SCAN ME



### Features \*\* ได้รับไพรเมอร์ภายใน 7 วันทำการ

- Scales from 0.025  $\mu$ mole to 1  $\mu$ mole
- Accurate concentration provided by the liquid handling system
- Duplex oligos (double-stranded oligos) are possible
- Guaranteed Yield
- 100% QC



### Price table (ราคาเริ่มต้นเบสละ 8 บาท)

| Synthesis Scale (base) | Price/Base (THB / base)**   |      |      |      |
|------------------------|-----------------------------|------|------|------|
|                        | Concentration ( $\mu$ mole) |      |      |      |
|                        | 0.025                       | 0.05 | 0.2  | 1    |
| 1-50 base              | 10                          | 18   | 50   | 100  |
| 51-300 base            | 9                           | 17   | 47   | 94   |
| >300 base              | 8                           | 15   | 43   | 88   |
| Purification Method    | Price/Oligo (THB / Oligo)** |      |      |      |
|                        | Desalt                      | MOPC | PAGE | HPLC |
| Desalt                 | free                        | -    | -    | -    |
| MOPC                   | -                           | free | free | free |
| PAGE                   | -                           | 1250 | 1250 | 1900 |
| HPLC                   | -                           | 1250 | 1250 | 1900 |

\*\*price exclude VAT 7%

### บริการวิเคราะห์หาลำดับเบส DNA/ RNA



**NGS (Next Generation Sequencing)** is the method of reading a genome by dividing it into many pieces, assembling the obtained sequence pieces and analyzing the sequence of the whole genome.

- Whole Genome Sequencing
- Exome Sequencing
- Targeted Sequencing
- Transcriptome Sequencing
- Metagenome Sequencing
- Epigenome Sequencing

### Workflow

DNA/RNA Extraction → Library Construction → Sequencing → Bioinformatical Analysis

### Technologies

- HiSeq X Ten
- NovaSeq 6000
- HiSeq 2500 / HiSeq 4000
- NextSeq 500 / MiSeq
- PacBio RSII / PacBio Sequel
- Ion PGM
- Ion Proton
- 10x Chromium
- Bionano Saphyr

### Bioinformatics

- De novo Assembly
- Reference Mapping
- Variant Calling (SNP / InDel)
- CNV & SV
- Gene Expression
- Functional Annotations

### Download Seq Order form (For Standard DNA Sequencing)



SCAN ME



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For more information, please contact us.



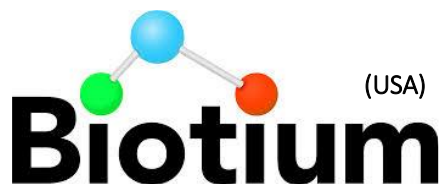
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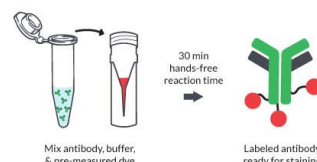
**Biotium** is a leading life science reagent manufacturer and supplier devoted to providing high-quality and innovative fluorescent tools that fuel scientific discovery. Biotium has developed over 30 patented technologies including **GelRed® dyes**, **CF® dyes**, **NucView® Caspase-3 Substrates**, **EvaGreen® dyes**, and **TrueBlack® Background Reducers**. Many of these technologies have been licensed out to leading life science technology companies worldwide.

#### Mix-n-Stain™ CF® Dye Antibody Labeling Kits

### Antibody & Protein Labeling Kits



- Mix-n-Stain™ Antibody Labeling Kits
- CF® Dye & Biotin SE Protein Labeling Kits
- VivoBrite™ Antibody Labeling Kits



### Apoptosis & Viability Assays



- NucView® Caspase Substrates for Live Cells
- Dead cell stains
- ViaFluor® SE Cell Proliferation Kits
- Live-or-Dye™ Fixable Dead Cell Stains

### Microbiology



- Bacterial Viability : Live-or-Dye™ Fixable Viability Staining Kits
- Viability PCR dye with PMAxx™
- Yeast Viability: Yeast Live-or-Dye™ Fixable Live/Dead Staining Kit

### Cell & Organelle Stains



**Nucleus** : NucSpot® 470, RedDot™, Live-or-Dye NucFix™ Red, DAPI and Hoechst



**Membrane & Cell Surface** : CellBrite™ Cytoplasmic Membrane Dyes



**Mitochondria** : MitoView™ Dyes , JC-1



**Lysosomes** : LysoView™ Dyes, LysoView™ 555



**Lipid Droplets** : LipidSpot™ Lipid Droplet Stains



**Cytoskeleton** : ViaFluor® Live Cell Microtubule Stains



**Vesicles & Membrane Trafficking** : Fluid phase tracers



**Cytoplasm** : ViaFluor® SE Cell Proliferation Dyes



**Neuronal Stains** : Anterograde & Retrograde Tracers

### Reactive CF® Dyes, Other Reactive Dyes



- Reactive CF® Dyes
- Amine-Reactive Dyes
- Azide, Alkyne, BCN, Tetrazine & TCO
- Biotinylation Reagents
- Dyes For Labeling Carbonyls & Carbohydrates



### In Vivo Imaging

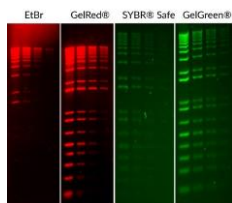


- Near-IR CF® Dye Annexin V Conjugates
- Near-IR Cytoplasmic Membrane Stains
- Vivobrite™ Rapid Antibody Labeling Kits

### DNA Gel Stains & Accessories



- GelRed® Nucleic Acid Gel Stain
- GelGreen® Nucleic Acid Gel Stain
- DNAzure® visible DNA gel stain



Gel-Bright™ LED Gel Illuminator

### Flow Cytometry Accessory Products



- Flow Cytometry Fixation/ Permeabilization Kit
- Fixation Buffer
- Permeabilization & Blocking Buffer

### Fluorescent Proteins & Other Conjugates



- Annexin V CF® Dye Conjugates
- Steady-Luc™ Firefly HTS Assay Kit
- Renilla Luciferase Assay Kit

### Western Blotting & Protein Gel Stains



- Western Blotting Reagents
- TrueBlack® WB Blocking Buffer Kit
- Protein Gel Stains
- One-Step Blue® Protein Gel Stain

### PCR & Molecular Biology



- qPCR Reagents
- Forget-Me-Not™ EvaGreen® qPCR Master Mix
- DNA / RNA Quantitation Kits
- DNA Binding Dyes : PMAxx™ Dye , EvaGreen® Dye
- DNA/RNA Purification Kits



Before adding template After adding template  
After addition of DNA template mixed with Forget-Me-Not™ Template Buffer



DNASTORM™ DNA Isolation Kit





## A Powerhouse Player in the Biotechnology Industry

**Applied Biological Materials (abm) Inc.** has been catalyzing scientific discoveries in Life Sciences and Drug Development for over a decade. Based in Vancouver, Canada, our agility in developing and commercializing novel research tools and our complete portfolio of unique services have made us an invaluable partner to laboratories and research institutions around the world.

### Cell Biology

#### CELL TYPES

- Primary Cells
- **Immortalized Cells**
- Tumor Cells
- **Drug Discovery Cell Lines**
- **CRISPR Cell Lines**
- 3'UTR Cell Lines
- Reporter Cell Lines
- GFP- and RFP-Expressing Cell Lines

#### CELL IMMORTALIZATION KITS

##### GROWTH FACTORS AND CYTOKINES

##### CELL BIOLOGY REAGENTS

- Media and Supplements
- **PriGrow Media**
- Transfection Reagents
- Mycoplasma Detection & Elimination
- Cell Attachment Factors

#### CELL-BASED ASSAY PRODUCTS

- Cell Lysates and Total RNA
- Luciferase Assay Kit
- Active Kinases

#### Over 400 Immortalized Cell Lines available:

- Adipose
- Airway
- Blood
- Bone
- Brain
- Breast
- Colon
- Digestive
- Eye
- Hair
- Heart
- Liver
- Lung
- Mesentery
- Oral
- Ovarian
- Pancreas
- Pharynx
- Placenta
- Renal
- Reproductive
- Skeletal Muscles
- Splenic
- Umbilical Cord
- ...and more!



Mycoplasma Detection Kit

### Your #1 Source for Vectors and viruses

### Gene Expression Vectors and Viruses

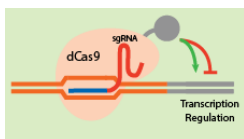
#### GENE EXPRESSION VECTOR AND VIRUS LIBRARIES

- AAV Library
- Adenovirus Library
- Lentivirus Library
- Retrovirus Library
- ORF Library
- Protein Vector Library
- lncRNA & Antisense RNA Library



#### EXPRESSION SYSTEMS AND PACKAGING KITS

- AAV Packaging Mixes and Serotyping
- Adenovirus Expression Systems
- Lentivirus Expression Systems
- Lentivirus Packaging Systems
- Retrovirus Expression Systems
- Retrovirus Packaging Systems
- Virus Purification Kits
- Virus Titration Kits



CRISPR for Gene Activation or Repression

### CRISPR

#### CRISPR GENE EDITING TOOLS

- Cas9 Expression Vectors and Viruses
- Cas9-Expressing Cell Lines
- GeneCraft-R CRISPR Kits

#### CRISPR LIBRARIES

- CRISPR Knockout Cell Line Library / Lentivirus Library / AAV Library / Adenovirus Library
- CRISPR Activation Library



**CRISPR Cell Lines**  
Simply add your sgRNA and begin editing!

### Molecular Biology and PCR

#### PCR

- PCR Polymerases and RT-PCR
- qPCR Master Mixes and Kits

#### MOLECULAR BIOLOGY ENZYMES AND KITS

- Restriction Enzymes
- DNA and RNA Ligases
- NGS Sample and Library Preparation Kits

#### DNA & RNA ANALYSIS

- **SafeView DNA Stains**
- DNA Ladders
- DNA & RNA Extraction and Purification
- RNA Visualization

#### PROTEIN EXPRESSION AND PURIFICATION

- Protein Lysates Library
- Recombinant Protein Library
- Affinity Chromatography
- IgG Purification

#### PROTEIN ELECTROPHORESIS, BLOTTING

- Protein Markers
- Western Blotting Reagents



#### SafeView Stains



Great alternative to more expensive SYBR® Safe or toxic Ethidium Bromide

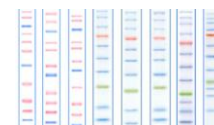
### RNAi Technology

#### miRNA EXPRESSION

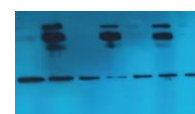
- Lentivirus miRNA Expression
- AAV miRNA Expression
- Adenovirus miRNA Expression
- Synthetic miRNA Mimics and Agomirs
- miRNA Expression controls

#### miRNA INHIBITORS

- Lentivirus miRNA Inhibitors
- AAV miRNA Inhibitors
- Adenovirus miRNA Inhibitors
- Synthetic miRNA Inhibitors and Antagomirs



Protein Ladder



Western Blot Reagents



For all product information, please visit <https://www.abmgood.com/>

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# BIOFACT

## BIOFACTORY

(South Korea)

### BIOFACT Provides the Progress for Your Research

Beyond the PCR Technology, BIOFACT Promises the Progress for Your Research. BIOFACT Provides You the Most Innovative High-Quality Reagents and Lab Supplies which Lead to Success of Your Tomorrow.

### PCR Enzyme

- BioFACT™ F-Star Taq DNA Polymerase (Hot Start)
- BioFACT™ Taq DNA Polymerase (Basic)
- BioFACT™ H-Star Taq DNA Polymerase (Hot Start)
- BioFACT™ A-Star Taq DNA Polymerase (Hot Start)
- BioFACT™ Lamp Taq DNA Polymerase
- BioFACT™ A-Star Lamp Taq DNA Polymerase (Hot Start)
- BioFACT™ Pfu DNA Polymerase
- BioFACT™ 2X Multi-Star PCR Series (Hot Start)
- SimpleWay™ Direct PCR (Hot Start)



DNA Polymerase

### Filtration

#### Minicolumn

- DNA/RNA Purification Mini Column
- HiFilter (For removing debris)

#### Syringe Filter

- CA (Cellulose Acetate)
- MCE (Mixed Cellulose Ester)
- PES (Polyethersulfone)
- Nylon (Polyamide)
- PVDF (Polyvinylidene Fluoride)
- PTFE – W (Polytetrafluoroethylene - Hydrophilic)
- PTFE – O (Polytetrafluoroethylene-Hydrophobic)

#### Membrane Filter

- MCE (Mixed Cellulose Ester)
- PES (Polyethersulfone)
- Nylon (Polyamide)
- PVDF (Polyvinylidene Fluoride)
- PTFE (Polytetrafluoroethylene - Hydrophobic)



### DNA/RNA Preparation

- BioFACT™ Magnetic Bead Preparation Series
- BioFACT™ Genomic DNA Prep Kit
- BioFACT™ Total RNA Prep Kit
- BioFACT™ Plasmid Mini Prep Kit
- BioFACT™ Gel & PCR Purification System



Gel &amp; PCR Purification Kit



Genomic DNA prep kit



Plasmid Mini prep kit



RNA prep kit


 Mini column for  
DNA prep Kit / RNA prep Kit / Gel & PCR Purification Kit

### BioFACT™ Magnetic Bead Preparation Series



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**Geneaid** is a leading manufacturer of DNA/RNA purification products including plasmid kits, DNA extraction kits, RNA kits, virus DNA/RNA kits, gel extraction kits, PCR cleanup kits, cloning kits, magnetic bead genomic DNA kits, PCR products, enzymes, protein products, DNA markers as well as high-throughput 96-Well DNA/RNA extraction kits.



SYNCStore™ STM



### Viral Nucleic acid Extraction kit

#### Auto Machine

- SYNC Nucleic Acids Extraction System (S032)

#### Magnetic Beads Virus RNA Extraction Kit

- Kit II (MV048/MV096/MV480)
- Plate Kit (MVP096)

#### Sample Storage Buffer

- SYNCStore™ STM (SS1000)
- PBS Transport Tube (PBS1000)

#### Spin Column Viral Nucleic Acid Extraction Kit

- Viral Nucleic Acid Extraction Kit II (VR050/VR100/VR300)
- Presto™ 96 well Viral Nucleic Acid Extraction Kit (96VR02, 96VR04)
- Virus DNA/RNA Extraction Kit III (VI050/VI100/VI300)
- Plant Virus RNA Kit (PVR050/PVR100)



SYNC Nucleic Acids Extraction System



GENeZol™ Reagent

### RNA Extraction

#### Total RNA

- RNase-Free DNase I Set (DNS050, DNS100, DNS300)
- Blood/Cell Total RNA Mini Kit (RB050, RB100, RB300)
- Bacteria RNA Mini Kit (RBB050, RBB100, RBB300) with DNase
- Blood/Cell RNA Mini Kit (RBD050, RBD100, RBD300)
- Yeast Total RNA Mini Kit (RBY050/RBY100/RBY300) with DNase
- Presto FFPE RNA Mini Kit (RF050, RF100) Mini Kit (RFD050, RFD100)
- miRNA Isolation Kit (RMI050)
- Plant Total RNA Mini Kit (RPD050, RPD100, RPD300) with DNase
- rSYNC™ RNA Isolation Kit (RS050, RS100, RS300)
- Tissue Total RNA Mini Kit (RTD050, RTD100, RTD300) with DNase

#### Tri RNA

- GENeZol™ 96 Well RNA Kit (96GZX04/96GZX10)
- GENeZol™ Bacteria Kit (GZBD050/GZBD100/GZBD200) with DNase
- GENeZol™ Reagent (GZR050/GZR100/GZR200)
- GENeZol™ TriRNA Pure Kit (GZXD050/GZXD100/GZXD200) with DNase

#### RNA Cleanup

- RNA Cleanup Kit (PR050/PR100)



### Magnetic Beads DNA/RNA Extraction

- Blood MB048/MB096
- Food MF048/MF096
- Bacteria ME048/ME096
- Plant MP048/MP096
- Micro gDNA kit MM048/MM096
- Soil (MS048/MS096)
- PCR Cleanup kit MC048/MC096
- 96 Magnetic Stand

Presto™ Vac 96 Well Vacuum Manifold

Bead Beating Tube



96 Magnetic Stand



### Nucleic acid extraction kits by Geneaid (Taiwan)

ชุดสกัด DNA, RNA จากตัวอย่างครบวงจร

#### Product List

- Viral Nucleic Acid Extraction Kit
- Plasmid DNA Extraction
- Genomic DNA Extraction
- PCR cleanup & Gel Extraction
- RNA Extraction

Type : Magnetic bead / Spin Column / 96 well plate



### DNA Extraction kit

#### DNA Purification

- 96 Well Plasmid Kit (96PDC04/96PDC10) (96PDV04/96PDV10)
- Presto™ Mini Plasmid Kit (PDH100, PDH300)
- Geneaid™ Midi Plasmid Kit (PI025)
- Midiprep Plasmid DNA Kit (PIF025)
- Maxi Plasmid DNA Kit PLUS (PM010+, PM025+)
- Endotoxin Free Maxi Kit PLUS (PME10+/PME25+)

#### Genomic DNA Purification

- 96 Well Bacteria DNA Kit (96GBB04, 96GBB10)
- 96 Well Blood DNA Kit (96GBP04, 96GBP10)
- 96 Well Plant DNA Kit (96GPP04, 96GPP10)
- 96 Well Tissue DNA Kit (96GS004, 96GS010)
- Food DNA Extraction Kit (FGD100, FGD300)
- Blood/Cell DNA Mini Kit (GB100, GB300) Midi Kit (GDI100)
- Bacteria Genomic DNA Kit (GBB100/101, GBB300/301)
- Yeast Genomic DNA Kit (GBYB100, GBYB300)
- Dry Blood Spot DNA Kit (GMB100, GMB300)
- Plant Genomic DNA Mini Kit (GP100) Maxi Kit (GPM010, GPM025)
- Tissue/Blood DNA Mini Kit (GS100, GS300)
- Buccal Swab DNA Mini Kit (GSK100, GSK300)
- Presto™ Sperm DNA Extraction Kit (GSP100/GSP300)
- Tissue Genomic DNA Mini Kit (GT050, GT100, GT300)
- Soil DNA Extraction Kit (SLD050, SLD100)
- Stool DNA Extraction Kit (STLD050, STLD100)
- Urine DNA Extraction Kit (UR050, UR100)

#### PCR Cleanup

- 96 Well PCR Cleanup Kit (96DFH04, 96DFH10)
- PCR Cleanup Kit (DFC100/DFC300)

#### Gel Extraction

- 96 Well Gel Extraction Kit (96DFG04, 96DFG10)
- Gel/PCR DNA Fragments Kit (DF100, DF300)
- Gel Extraction Kit (DFG100/DFG300)
- GenepHlow™ Gel/PCR Kit (DFH100, DFH300)
- DNA Cleanup Maxi Kit (DFM010, DFM025)
- Gel Extraction Cutting Tool (GXT025)

#### Sequencing Cleanup

- G-50 Gel Filtration Dye Terminator Removal Column (CG050)
- 96 Well G-50 Gel Filtration Plate (CGP04, CGP10)

#### Reagent DNA Extraction

- Blood DNA Isolation Kit (GEB100/GEB01K)
- Cell DNA Isolation Kit (GEC150/GEC01K)
- Bacteria DNA Isolation Kit (GEE150, GEE1.5K)
- Tissue DNA Isolation Kit (GET150, GET01K)
- Yeast DNA Isolation Kit (GEY100, GEY300)
- Plant DNA Isolation Kit (GR100, GR200)
- ZEROprep™ DNA PCR Reagent (ZDR050, ZDR100)



For all product information,  
please visit <https://www.geneaid.com/>

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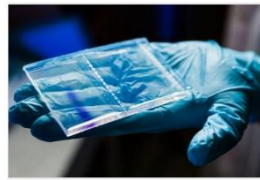
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## Agarose for Gel Electrophoresis

**Smart Agarose** is an agarose ideal for routine rapid separation of DNA and RNA fragments as well as PCR products, the preparation of plasmids, and for screening, cloning and blotting techniques.

### FEATURES

- ❑ Easy dissolution and rapid gelling.
- ❑ Excellent transparency and low background staining gives clear band visibility.
- ❑ Sharp and well defined bands.
- ❑ Very low DNA binding.

### APPLICATIONS

- ❑ Smart Agarose has high gel strength even at low concentrations, so use rates are 0.75 - 2%.
- ❑ It is effective in blotting and in separations of nucleic acid fractions from 250 bp to 23 Kb.

### SPECIFICATIONS & FUNCTIONAL TESTS

|                                         |               |
|-----------------------------------------|---------------|
| Ash                                     | ≤ 0.45%       |
| Sulfate                                 | ≤ 0.15%       |
| Clarity 1.5 % (NTU)                     | ≤ 4           |
| Gel Strength 1% (g/cm <sup>2</sup> )    | ≥ 1000        |
| Gel Strength 1.5 % (g/cm <sup>2</sup> ) | ≥ 2000        |
| Gelling Temperature 1.5 % (°C)          | 36 ± 1.5      |
| Melting Temperature 1.5 % (°C)          | 88 ± 1.5      |
| DNase/ RNase activity                   | None detected |

## Low EEO Agarose, High electrophoresis mobility

### Suitable for

- Nucleic acid analytical of fractions from 250 bp to 23 Kb
- Preparative electrophoresis
- Blotting
- Protein electrophoresis ex. radial immunodiffusion

### FEATURES

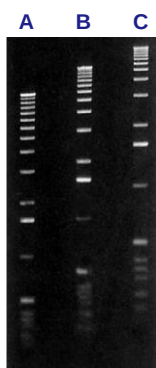
- ❑ Extraordinary mechanical resistance for more reliable and easier handling.
- ❑ Possibility of varying pore size in accordance with particle size by modifying the gel concentration.
- ❑ Easy preparation of the gel by simple dilution in aqueous buffers either by standard boiling or microwaving.
- ❑ Greater thermal stability due to high hysteresis (difference between gelling and melting temperatures).
- ❑ Excellent transparency of the gel and high visibility.
- ❑ Exceptionally low absorption of staining agents.
- ❑ Absence of toxicity (polyacrylamide is neurotoxic).

### SPECIFICATIONS & FUNCTIONAL TESTS

| * EEO (electroendosmosis)               | D-1 LE/QS       |
|-----------------------------------------|-----------------|
| Moisture                                | ≤ 10%           |
| Ash                                     | ≤ 0.4%          |
| EEO*                                    | 0.05-0.13       |
| Sulfate                                 | ≤ 0.1%          |
| Clarity 1.5 % (NTU)                     | ≤ 3             |
| Gel Strength 1% (g/cm <sup>2</sup> )    | ≥ 1200          |
| Gel Strength 1.5 % (g/cm <sup>2</sup> ) | ≥ 2500          |
| Gelling Temperature 1.5 % (°C)          | 36 ± 1.5        |
| Melting Temperature 1.5 % (°C)          | 88 ± 1.5        |
| DNase/ RNase activity                   | None detected   |
| DNA resolution ≥ 1000 bp                | Finely resolved |
| Gel background                          | Very low        |



**By Smart Agarose**  
Markers:  
Lane 1 : 1 Kb ladder  
Lane 2: 250 bp ladder  
Lane 3: 100 bp ladder



**By LE Agarose**  
D1-LE Agarose gels in 1X TAE buffer  
A-0.75%, B-1%, C-1.25%  
Marker: 1Kb ladder.  
Electrophoresis conditions: submarine gel,  
2 hours 30 min, 4.5 V/cm in 1X TAE buffer.

## Order Information

| Cat No.    | Description         |
|------------|---------------------|
| SB101-100G | Smart Agarose, 100g |
| SB101-500G | Smart Agarose, 500g |
| Cat No.    | Description         |
| SB102-100G | LE Agarose, 100g    |
| SB102-500G | LE Agarose, 500g    |







## Enzynomics: Global Supplier of enzymes, experiment kits

Enzynomics produce enzymes for research and diagnostics, resulting in the production of high-quality recombinant enzymes that range from restriction enzymes to DNA polymerases, virtually covering all enzymes needed for modern life science.



*"Enzynomics produce approximately 200 highest purity enzymes, consisting of*

- 130 restriction endonucleases,
- 20 DNA polymerases, and
- 50 modifying enzymes."

### Restriction Enzyme

|         |        |           |
|---------|--------|-----------|
| Aat II  | Bal I  | BtsC I    |
| Acc I   | BamH I | Cfr9 I    |
| Acc III | Bbv I  | Cfr10 I   |
| Acl I   | Bcl I  | Cfr42 I   |
| Acu I   | Bgl I  | Cla I     |
| Afl II  | Bgl II | CviA I    |
| Age I   | Bsa I  | Dde I     |
| Alw I   | BsaW I | Dpn I     |
| Alw26 I | BsiW I | Dpn II    |
| Apa I   | BsmB I | Dra I     |
| Apal I  | BsoB I | Eag I     |
| Apo I   | BspE I | Eco47 I   |
| Asc I   | BsrF I | EcoN I    |
| Ava I   | BspH I | EcoO109 I |
| Ava II  | BstX I | EcoR I    |
| Avr II  | BstY I | EcoR V    |

|          |           |            |
|----------|-----------|------------|
| EcoT38 I | Hpy188 I  | Nco I      |
| Esp3 I   | Hpy99 I   | Nde I      |
| Fok I    | HpyCH4 V  | NgoM IV    |
| Fse I    | Kas I     | Nhe I      |
| Fsp I    | Kpn I     | Nla IV     |
| Hae II   | Kpn2 I    | Not I      |
| Hae III  | Lsp1109 I | Nru I      |
| Hga I    | Mbo I     | Nt.BstNB I |
| Hinc II  | Mbo II    | PaeR7 I    |
| Hind II  | Mlu I     | PfIM I     |
| Hind III | Mnl I     | Ple I      |
| Hinf I   | Mse I     | PluT I     |
| HinP1 I  | Msp I     | PspG I     |
| Hpa I    | MspA1 I   | Pst I      |
| Hpa II   | Mun I     | Pvu I      |
| Hph I    | Nae I     | Pvu II     |

|         |          |
|---------|----------|
| Rsa I   | Stu I    |
| Sac I   | StyD4 I  |
| Sac II  | Swa I    |
| Sal I   | Taq I    |
| Sau96 I | TspM I   |
| Sbf I   | Tth111 I |
| Sca I   | Xba I    |
| Sda I   | Xcm I    |
| Sfi I   | Xho I    |
| SgrA I  | Xma I    |
| Sma I   |          |
| SnaB I  |          |
| Spe I   |          |
| Sph I   |          |
| Sse9 I  |          |
| Ssp I   |          |

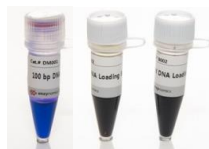
### EZ-CleanCut™

EZ-CleanCut™ Age I  
EZ-CleanCut™ BamH I  
EZ-CleanCut™ EcoR I  
EZ-CleanCut™ EcoR V  
EZ-CleanCut™ Kpn I  
EZ-CleanCut™ Nco I  
EZ-CleanCut™ Nhe I  
EZ-CleanCut™ Not I  
EZ-CleanCut™ Pvu II  
EZ-CleanCut™ Sac I  
EZ-CleanCut™ Sal I  
EZ-CleanCut™ Sca I  
EZ-CleanCut™ Sph I  
EZ-CleanCut™ Ssp I

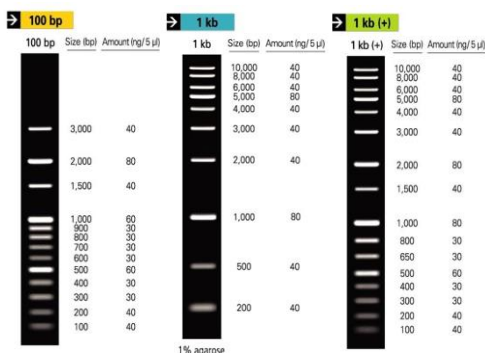


### Electrophoresis

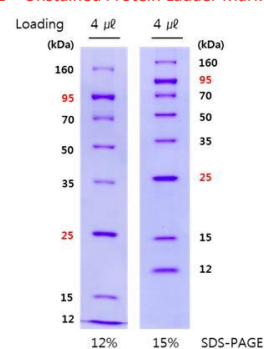
- 6X DNA Loading Buffer
- EZstain™ DNA Loading Dye
- 100 bp DNA Ladder Marker
- 1 kb DNA Ladder Marker
- 1 kb (+) DNA Ladder Marker
- EZ™ Agarose Tablet
- TOPview™ ECL Pico Plus Western Substrate
- TOPview™ ECL Pico Ultra Western Substrate
- TOPview™ ECL Femto Western Substrate
- TOPview™ Prestained Protein Ladder Marker
- EZ™-Unstained Protein Ladder Marker



### DNA Ladder Marker



### EZ™-Unstained Protein Ladder Marker



### Enzyme

- DNA/RNA ligases
- T4 DNA Ligase
- TEV Protease
- RNase Inhibitor
- RNase Inhibitor, Murine
- Cold UDG
- Uracil-DNA Glycosylase
- EZ™ USE Enzyme
- PNGase F
- RecA
- Tth RecA
- Topoisomerase I (vaccinia)
- Integrase (INT)
- Thermostable FEN1
- T4 gene 32 protein
- ATP sulfurylase
- EZ™-Random primer DNA labeling kit
- PCR polymerase
- Reverse transcriptase
- Real-time PCR
- Cloning & Mutagenesis Kit
- NGS library Preparation
- Nucleic Acid Purification
- RNA Synthesis Kit
- Reporter assay kit
- Electrophoresis
- Nucleotide
- Cytokine

### Premade Buffer

- Coomassie Blue R-250 Solution
- DAPI dilution buffer
- 500 mM EDTA, pH 8.0
- FACS buffer
- 50% Glycerol
- 1M HEPES, pH 8.0
- 10X MOPS Buffer
- 10X PBS, Autoclaved, Sterile, pH 7.2
- 3 M Sodium Acetate, pH 5.2
- 10 mM Sodium Citrate Buffer



### TOPcloner™ TA kit



TOPreal™ qPCR 2X PreMix  
(TaqMan Probe)

SuperiorScript III cDNA  
Synthesis kit

EZ™ Plant Direct PCR kit



For all product information,  
please visit <http://www.enzynomics.com/>

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(China)

## Top Selling Products for Proteomics

- ExKine™ Protein Extraction Kits
- PurKine™ Protein & Antibody Purification series
- LinKine™ Protein Labeling Kits (Reliable & Efficiency)
- Protein Quantification Related Products
- Loading Control Antibodies
- Epitope & Tag Antibodies
- Agarose/Magnetic Beads conjugated Tag Antibodies
- HRP & AP Conjugated Secondary Antibodies
- IFKine™ Fluorescent Secondary Antibodies
- Dylight™ Fluorescent Secondary Antibodies
- Selected Primary Antibodies (Multiple Validation)
- Blocking/Normal Serum
- EliKine™ ELISA Kit (High Sensitivity & High Specificity)

## EliKine ELISA Kits

Unexpected Sensitive and Accurate

Abbkine newly launched EliKine™ series of ELISA kits exert high sensibility and specificity, with a comprehensive selection of ELISA kits available for the quantification of **cytokines, hormones and other proteins**, to meet your multiple experiment demands

### Components of EliKine™ Sandwich ELISA Kits

- 96-well strip microplate pre-coated with capture antibody
- Biotinylated detect antibody
- Analyte standard
- EliKine™ streptavidin-HRP conjugate
- Standard diluent
- HRP substrate
- Wash buffer
- Plate cover
- Stop solution
- Assay buffer



PurKine™

**Abbkine Scientific Co., Ltd.** was founded by a number of scientists and marketing experts in the field of life science in **California, USA in 2012**. With growing demands from Asia Pacific, it move its headquarters to China. Combining cutting edge technology from United States with China's manufacturing engineering and cost advantages, **Abbkine aim to provide innovative, high quality assay kits, recombinant proteins, antibodies and other research tools to accelerate life science fundamental research, drug discovery, etc.**

## CROWN Antibody

Ultra validation and promise



### Loading Control antibodies

- β-Actin
- GAPDH
- β-Tubulin
- α-Tubulin
- Cyclophilin B
- Cofilin
- Vinculin
- Mitochondrial
- COX IV
- HSP60
- VDAC1/Porin
- Nuclear
- PCNA
- Histone H3
- HDAC1
- Lamin B1
- TBP/TATA
- Membrane NaK ATPase
- Serum Transferrin

### Primary antibodies

- Signal Transduction
- Apoptosis
- Immunology
- Cytoskeleton
- Epigenetics
- Cardiovascular
- Neuroscience
- Cell Cycle
- Other antibodies

### Epitope & tag antibodies

### Fluorescent secondary antibodies

- Dylight® antibodies
- IFKine™ antibodies

## Protein & Antibody

Purification & Detection Tools



### Protein Purification & Detection

- His Tag Fusions
- GST Tag Fusions
- MBP Tag Fusions
- DDDDK Tag Fusions
- Biotin Tag Fusions
- HA Tag Fusions
- Protein A Tag Fusions
- Myc Tag Fusions
- VSV-G Tag Fusions

### Antibody Purification & Detection

- Protein A
- Protein G
- Protein L
- Protein A/G
- Antibody Purification
- IPKine Antibodies



For all product information, please visit <https://www.abbkine.com>

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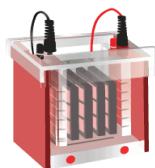
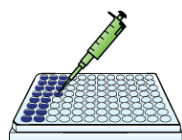
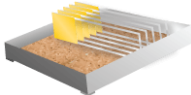
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## ANTIBODY & ELISA EXPERTS

27 years designing high affinity antibodies and immunoassays. Proudly serving the brightest minds in scientific research.

## Products



## By categories

### • Primary Antibodies

- Monoclonal Antibodies
- Rabbit Monoclonal Antibodies

**Applications :** For IHC, ICC/IF, WB, ELISA, Flow Cytometry, ChIP And Many More

### • ELISA Kits

- PicoKine™ ELISA Kits
- PicoKine™ Fast ELISA Kits
- EZ Set™ ELISA Antibody Pairs
- Multiplex ELISA Solutions

### Popular ELISA

Insulin / Cortisol / TNF Alpha / IL-1 Beta  
IL-6 / IL-10/ IFN Gamma / Adiponectin / VEGF

### • Secondary Antibodies

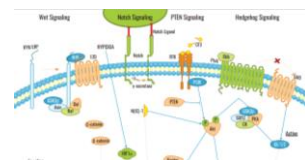
**Commonly used secondary antibody conjugates**  
Fluorophores / Enzymes / Biotin / Colloidal gold

- Recombinant Proteins
- Common Buffers And Recipes
- Cell and Tissue Lysates
- Immunostaining IHC IF ICC Reagents
- Western Blot Reagents
- PCR and qPCR
- Reporter Cell Lines



## By Pathways

- Adhesion/Ecm/Cytoskeleton
- Angiogenesis Signaling Pathway
- Apoptosis - Cell Death
- Cancer And Stem Cell
- Cell Cycle, Checkpoint Control and DNA Damage
- Cellular Metabolism
- Cell Signaling
- Cytoskeletal Regulation and Vesicle Trafficking
- Developmental Biology Signaling & Stem Cell
- Epigenetics Pathways
- GPCR, Calcium, Camp Signaling
- Immunology and Inflammation
- Kinase Signaling
- Neuroscience
- B-Cell Development Pathway
- Colorectal Cancer Metastasis Pathway
- Ebola Virus Pathogenesis Pathway
- EGF Pathway
- ErbB2-ErbB3 Heterodimers Pathway
- ERK Signaling Pathway
- Fas Signaling Pathway
- IL-3 Signaling Pathway
- IL-17 Signaling Pathway
- miRNA in Cancer Pathway
- Mitochondrial Apoptosis Pathway
- Nucleotide Excision Repair (NER) Pathway
- Oct4 in Mammalian ESC Pluripotency Pathway
- TCR Signaling Pathway
- TNF Signaling Pathway



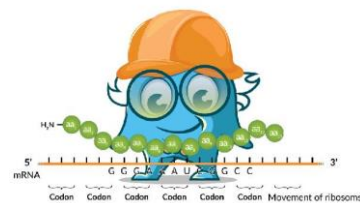
## Service



- Recombinant Protein Expression
- Gene Synthesis
- Custom Antibody Production
  - Rabbit Polyclonal
  - Mouse Monoclonal
  - Rabbit Monoclonal
- Sample Testing Services
  - Singleplex ELISA
  - Multiplex ELISA
  - IHC and Immunofluorescence
- Assay Services
  - ELISA
  - Histology/IHC/IF
  - Western Blotting



## Recombinant Proteins



**For more information, please visit :**  
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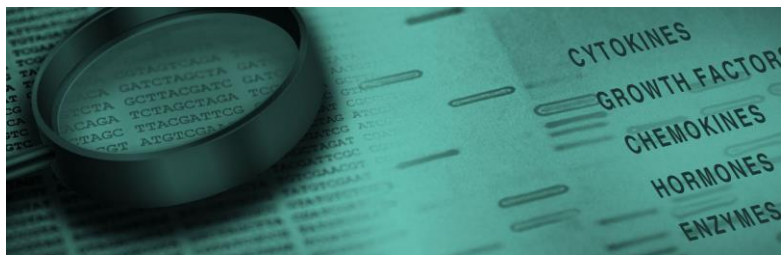


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## Recombinant Protein Manufacturer



**ProSpec** provides purified proteins worldwide which serve the research community with cytokine-related products for cancer, apoptosis, development, endocrinology, immunology, neuroscience, proteases, and stem cell research, more than 6000 recombinant proteins.

### CYTOKINES

- 4-1BB
- Adiponectin
- AITRL
- AIF1
- Angiopoietin
- Apolipoprotein
- B-Cell Activating Factor
- Beta Defensin
- Betacellulin
- Bone Morphogenetic
- BST
- B type Natriuretic Peptide
- Cardiotrophin
- CTLA4
- EBI3
- Endoglin
- Epiregulin
- FAS
- Flt3 Ligand
- Follistatin
- Hedgehog Protein
- Interferon
- Interleukin
- Otoraplin
- Resistin
- Serum Amyloid A
- TPO
- Trefoil Factor
- TSLP
- Tumor Necrosis Factor
- Uteroglobin
- Visfatin

### VIRAL ANTIGENS

- Borrelia
- Chikungunya
- Chlamydia
- Cytomegalo
- Dengue
- Ebola
- EBV
- Encephalitis
- Feline Leukemia Virus
- Hantavirus
- HBsAg
- Hepatitis A, B, C, D, E
- Herpes
- HIV
- Influenza
- Malaria
- Mumps
- Mycoplasma
- Norovirus
- Papillomavirus
- Parvovirus
- Rubella
- SARS
- Shiga Like Toxin
- Toxoplasma
- Treponema
- S. Typhi
- Varicella
- West Nile
- Zika

### HORMONES

- Endothelin
- Exendin
- FSH
- GHRP
- Glucagon
- HCG
- Inhibin A
- LHRH
- Procalcitonin
- PTH
- Stanniocalcin
- Thymosin
- Thyrostimulin
- TSH

### GROWTH FACTORS

- Activin
- CSF
- CTGF
- EGF
- Epigen
- Erythropoietin
- Fibroblast
- Galectin
- Growth Hormone
- HDGF
- Hepatocyte
- IGFBP
- Insulin
- Keratinocyte
- Leptin
- Noggin
- NOV
- Omentin
- Oncostatin-M
- Osteopontin
- Osteoprotegerin
- PDGF
- Periostin
- Placental Lactogen
- Prolactin PRL
- RANK Ligand
- Retinol Binding Protein
- Stem Cell Factor
- Transforming
- VEGF Protein

### NEUROTROPHINS

- BDNF
- Beta-NGF
- CDFN
- CNTF
- GDNF
- MANF
- Midkine
- Neuregulin
- Neuroglobin
- Neuritin
- Neuropilin
- Neurotrophic factors
- Persephin

### ENZYMES

- Adenylate Kinase
- Alkaline Phosphatase
- Asparaginase
- Aurora Kinase
- Beta Lactamase
- Carbonic Anhydrase
- Casein Kinase
- Chitinase
- Creatin Kinases
- Deaminase
- Decarboxylase
- Dehydrogenase
- Endonuclease
- Enolase
- Enterokinase
- Epimerase
- Galactosidase
- Glucosidase
- Glycosylase
- Glyoxalase
- Granzyme
- Guanylate Kinase
- Histone Deacetylase
- Heparanase
- Hexokinase
- Hydroxylase
- Isomerase
- Jun N-terminal Kinase
- Jun Proto-Oncogene
- Kallikrein
- Ligase
- Lipase
- Mutase
- Nuclease
- Nucleotidase
- Oxidase
- Oxygenase
- Peptidase
- Peroxiredoxin
- Phosphatase
- Phosphorylase
- Protease
- Protein Kinase
- Reductase
- Sulfatase
- Synthase
- Synthetase
- Transaminase
- Transferase
- Tyrosine Kinase

### NATURAL PROTEINS

- Natural Albumin
- Anti Coagulation Factors
- Aprotinin
- Avidin
- Natural Coagulation Factors
- Fibronectin
- Thrombin
- Transferrin

### CHEMOKINES/CD ANTIGENS

- BCA-1/ BLC (CXCL13)
- BRAK (CXCL14)
- CTACK (CCL27)
- ENA-78 (CXCL5)
- Eotaxin (CCL11,24,26)
- Exodus-2 (CCL21)
- Fractalkine (CX3CL1)
- Interleukin 8 (CXCL8)





## RELIABLE & HIGH-QUALITY ANIMAL CELL & PLANT TISSUE CULTURE REAGENTS

**Caisson Labs** manufacture and supply products for animal cell culture (including: cell culture media, FBS (Fetal bovine serum), buffer solutions, antimicrobials, and other reagents) and for plant research and micropropagation (including tissue culture media, plant growth regulators, agars, biochemicals and much more).

### ANIMAL CELL CULTURE



#### Cell Culture Media & Balanced Salts

- Dulbecco's Modified Eagle's Medium (DMEM)
- Grace's Insect Medium
- Ham's F-12
- Hanahan's Broth
- Iscove's Modified Dulbecco's Medium (IMDM)
- Leibovitz's L-15
- McCoy's 5A
- MCDB 131 Medium
- Medium 199
- Minimum Essential Medium– Earle's / – Hank's
- NCTC-109 Medium
- NCTC-135 Medium
- Neuronal Cell Medium
- NLN Basal Medium
- RPMI 1640
- Schneider's Drosophila Medium
- SDM-79 Medium
- Shield's & Sang Insect Medium
- SILACE, E. coli Medium
- Hink's TNM-FH Insect Medium
- Trypsin-EDTA Solution
- William's E

#### Sera

- Newborn Calf Serum
- Porcine Serum
- Rainbow Trout Serum
- Fetal Bovine Serum

#### Buffers and Supplements

- S.O.C. Medium
- Yeast Mannitol Agar / Broth

#### Antibiotics & Antimycotics

- Penicillin-Streptomycin Solution
- Stabilized Glutamine-Penicillin-Streptomycin Solution

### PLANT TISSUE CULTURE



#### Tissue Culture Media

- Chu's N-6
- DKW
- E3P
- Gamborg's B-5
- Hoagland's
- Linsmaier & Skoog
- Lloyd & McCown's Woody Plant
- Murashige & Skoog
- NB Basal Medium
- Nitsch & Nitsch Basal Salts
- Orchid Maintenance Medium
- Preece's Basal Salts
- Quoirin & Lepoivre Basal Salt Mixture
- Rugini Olive Basal Medium
- Vacin & Went Orchid Basal Salts
- White's Basal Salts
- William's Medium E

#### Plant growth regulators

- Thidiazuron
- trans-Zeatin
- trans-Zeatin Riboside

#### Plant Supplements

- Gamborg's B-5 Vitamin Mixture
- Murashige & Skoog Vitamin Mixture
- Nitsch & Nitsch Vitamin Mixture
- **Plant Preservative Mixture (PPM™)**



For all product information, please visit [www.caissonlabs.com](http://www.caissonlabs.com)

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*Enhancing With Time,  
Growing With You*



### Dehydrated Culture Media

Chromogenic Dehydrated Culture Media  
Harmonized Culture Media  
Sterile Dehydrated Culture Media

### Biological Media Bases

Bile Salt  
Tryptone  
Meat Extract  
Soya peptone  
Liver Extract  
Yeast Extract

### Ready to use Media

Ready to use Media Plate / Tubes  
Ready to use Kit and Stains  
Transport Swab with Medium  
Ready to use Agar Media  
Viral Transport Swab Kits  
Blood Culturing System

### Antibiotic Sensitivity Discs

Amikacin/ Amoxiclav /Cefotaxime  
Many More...



## For Every Microbiology Need

*More than 1800 Culture Media*

### Microbiological Lab Consumables

Anaerobic Box/ Jar System  
Spreader / Disposable Loops

### Microbiological Lab Equipment

Petri Plate  
Infrared Sterilizer for Inoculation Loops  
Microbial Air Monitoring Systems

### Biological Indicators & Chemical Indicators

Spore Ampoules  
Spore Strips  
Self Adhesive Sterilization Indicator (E.O.)  
Sterilization Indicators for Steam  
Chemical Indicator Tape  
Chemical Indicator Test Strip

### GRAM STAINS - KIT



### Gram-Staining Kit

## APPLICATIONS

### PHARMACEUTICAL (as per UPS/EP/BP/JP)

Fluid Thioglycolate Medium  
Soybean Casein Digest Medium / Agar  
Violet Red Bile Dextrose Agar  
Mannitol Salt Agar Base  
Soyabean Casein Digest Agar Plate + Neutraliser

### Agriculture

Corn Meal Agar  
King's Medium B Base  
CZAPEK Dox Agar  
Potato Dextrose Agar and Broth  
Trichoderma Harzianum Selective Agar Base  
Zinc Solubilizing Medium

### Brewery & Distillery

MacConkey Broth  
Universal Liquid Medium  
WL – Differential Agar  
WL- Nutrient Broth  
Wort Agar  
Yeast Malt Agar  
& Many More...

### Veterinary

E.T Medium  
B Q Vaccine Medium  
(Thioglycollate Broth)  
Standard Nutrient Broth

### Environment

Lethen Broth  
Dey-Engley Neutralizing Broth  
Rose Bengal Chloramphenicol

### Dairy & Food, Water,

Hektoen Enteric Agar  
Brilliant Green Bile broth 2%  
Chromogenic E.Coli Agar  
Chromogenic Coliform Agar  
EMB Agar, Levine  
Lactose TTC Agar  
Plate count Agar  
Violet Red Bile Lactose Agar  
PA E.Coli Kit  
H2S Test Strip Kit



### Clinical & Medical

Baird Parker Agar Base  
Blood Agar Base  
Brain Heart Infusion Broth  
C.L.E.D. Agar  
Chromogenic UTI Agar  
Deoxycholate Citrate Agar  
Mueller Hinton Agar  
MacConkey Agar  
Triple Sugar Iron Agar  
Urea Agar  
Xylose Lysine Deoxycholate Agar  
Chromogenic Candida Agar  
Dextrose Broth  
Sheep Blood Agar Plate



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**Formedium™** are dedicated to the manufacture and supply of the highest quality powdered media. We stock a wide range of standard industry products as well as specialising in the production of bespoke formulas. We are a customer driven company focused on delivering quality, service and competitive pricing to meet the exacting needs of academia, research and industry.

### ESCHERICHIA COLI MEDIA

- AIM - Auto Induction Medium
- Media for Optimal Cell Growth and Yield of *Escherichia Coli* Cultures
- Bacteriophage Lambda Medium Formulations
- M13 Phage and ssDNA Bacteriophages Medium Formulations
- Competent Cells Medium Formulations
- Bacterial Media Components

### FUSARIUM SP MEDIA

- PDA, Potato Dextrose Agar
- PDB, Potato Dextrose Broth

### LACTOBACILLI MEDIA

- MRS Agar
- MRS Broth

### SACCHAROMYCES CEREVISIAE MEDIA

- Complex Media
- Yeast Nitrogen Base Media
- Synthetic Defined Media
- Synthetic Complete Media
- Amino Acid Drop-Out Supplements
  - Complete Supplement Mixture, (CSM)
  - Hopkins Mixture, Synthetic Complete Supplement Mixture, (SCSM)
  - Kaiser Mixture, Synthetic Complete Drop-Out Mixture, (SC)
  - Brent Supplement Mixture, (BSM)
  - Hollenberg Supplement Mixture, (HSM)
- Yeast Media Components

### SACCHAROMYCES CEREVISIAE AMINO ACID DROP-OUT SUPPLEMENTS

- Complete Supplement Mixture, (CSM)
- Hopkins Mixture, Synthetic Complete Supplement Mixture, (SCSM)
- Kaiser Mixture, Synthetic Complete Drop-Out Mixture, (SC)
- Brent Supplement Mixture, (BSM)
- Hollenberg Supplement Mixture, (HSM)

### DICTYOSTELIUM DISCOIDEUM MEDIA

- Non Defined Complex Dictyostelium Discoideum
- FM Defined Minimal Media
- SIH Defined Minimal Media
- Yeast Media Components

### SCHIZOSACCHAROMYCES POMBE MEDIA

- Complex Media
- Minimal Defined Media
- SP Supplements
- Yeast Media Components

### ANIMAL FREE MEDIA FOR GROWTH OF *E. COLI* CULTURES

- Soya Peptone
- VLB-Agar / Broth
- 2X VYT Agar / Broth



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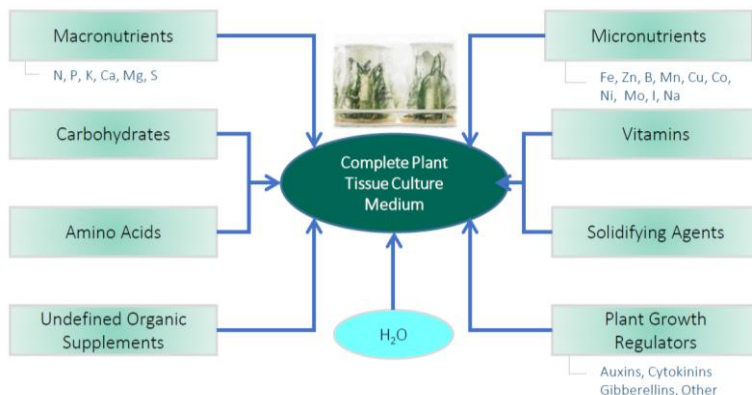


## Plant Media

A267 Anderson Basal Salt Mixture  
 B144 Banana AGS Basal Medium  
 B129 Bacteria Screening Medium 523  
 C416 Chu's N6 Basal Salt Mixture  
 C167 Chu's N6 Basal Medium  
 C206 Cape Sundew / Venus Fly Trap Multiplication Medium  
 C222 Carrot Shoot Development Medium  
 C212 Carrot Callus Initiation Medium from Pith Tissue  
 D190 DKW Basal Salt Mixture  
 D146 DCR Basal Salt Mixture  
 D189 DKW Basal Medium with 30 g/L Sucrose  
 G398 Gamborg's Basal Medium  
 G768 Gamborg Basal Salt Mixture (B-5 Salts)  
 H353 Hoagland Modified Basal Salt Mixture  
 H435 Hosta Initiation/Multiplication Medium Stagel/II Medium  
 H436 Hosta Multiplication Medium Stage II Medium  
 H437 Hosta Rooting Medium Stage III Medium  
 L449 Lloyd & McCown's Woody Plant Medium (WPM)  
 L689 Linsmaier & Skoog Basal Medium  
 L477 Linsmaier & Skoog Modified Basal Medium  
 L154 Lloyd & McCown Woody Plant Basal Mixture  
 L689 Linsmaier & Skoog Basal Medium  
 L476 Leifert & Waites Sterility Test Medium  
 M561 Murashige & Skoog Modified Basal Salt Mixture  
 M519 Murashige & Skoog Basal Medium with vitamin  
 M524 Murashige & Skoog Basal Salt Mixture  
 M507 Murashige Cattleya Orchid Multiplication Medium  
 M508 Murashige Fern Multiplication Medium  
 M509 Murashige Gerbera Multiplication Medium  
 M511 Murashige Kalanchoe Multiplication Medium  
 M536 Murashige Modified Basal Multiplication Medium  
 M527 Murashige Modified Multiplication Medium  
 M491 Murashige Shoot Multiplication Medium  
 M462 Musa (Banana) Multiplication Medium  
 M579 Mitra Maintenance/Replate Medium  
 N492 NB Basal Medium  
 O753 Orchid Multiplication Medium  
 P688 Orchid Maintenance Medium  
 P723 Orchid Seed Sowing Medium  
 P781 PhytoTech Orchid Replate Medium with Sucrose  
 P656 PhytoTech Phalaenopsis Replate Medium  
 R756 Rose Initiation Medium  
 R757 Rose Modified Multiplication Basal Medium  
 R758 Rose Modified Rooting Basal Medium  
 S816 Schenk & Hildebrandt Basal Salt Mixture  
 S808 Schenk & Hildebrandt Modified Basal Medium  
 W863 Westvaco WV3 Basal Medium



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## Plant Growth Regulators

### Auxins

I885 Indole-3-Acetic Acid (IAA)  
 I364 Indole-3-Acetic Acid (IAA) Solution (1 mg/mL)  
 I538 Indole-3-Butyric Acid (IBA)  
 I460 Indole-3-Butyric Acid (IBA) Solution (1 mg/mL)  
 I560 Indole-3-Butyric Acid (IBA), Potassium Salt  
 N600 Naphthalene acetic Acid (NAA)  
 N605 Naphthalene acetic Acid (NAA) Solution (1 mg/mL)  
 N610 Naphthalene acetic Acid (NAA), Potassium Salt  
 D295 2,4-D Solution (1 mg/mL)  
 D309 2,4-D Solution (10 mg/mL)  
 B148 4-Bromophenoxyacetic Acid  
 N564  $\beta$ -Naphthoxy acetic Acid  
 C213 p-Chlorophenoxy acetic Acid  
 P717 Picloram

### Cytokinins

C279 4-CPPU  
 A120 Adenine  
 A545 Adenine Hemisulfate  
 K750 Kinetin  
 K483 Kinetin Solution  
 B151 N6-Benzyladenine  
 T888 Thidiazuron  
 T438 Thidiazuron (95%)  
 D525 6-( $\gamma$ , $\gamma$ -Dimethylallylamino)purine (2iP)  
 D217 6-( $\gamma$ , $\gamma$ -Dimethylallylamino)purine (2iP) Solution (1 mg/mL)  
 B800 6-Benzylaminopurine (BA)  
 B130 6-Benzylaminopurine (BA) Solution (1 mg/mL)  
 Z125 Zeatin  
 Z860 Zeatin Solution (1 mg/mL)  
 Z899 Zeatin Riboside  
 Z875 Zeatin Riboside Solution (1 mg/mL)  
 T841 meta-Topolin  
 T7885 meta-Topolin Solution (1 mg/mL)

### Gibberellins

G500 Gibberellic Acid  
 G198 Gibberellic Acid Solution (1 mg/mL)  
 G358 Gibberellins A4 + A7

### Other

|                                 |                                  |
|---------------------------------|----------------------------------|
| A102 Absciscic Acid             | F376 Flurprimidol                |
| O630 Oryalin                    | G345 Glyphosphate                |
| T828 Trifluralin                | M494 Maleic Acid Hydrazide       |
| T818 1-Triacantanol             | P687 Paclobutrazol               |
| T850 2,3,5-Triiodobenzoic Acid  | P694 Phloroglucinol              |
| A123 Ancymidol                  | P733 Putrescine, Dihydrochloride |
| C207 Chlormequat Chloride       | S837 Spermidine, Free Base       |
| D159 Dicamba                    | S746 Succinic Acid               |
| D165 Dicamba Solution (1 mg/mL) | C283 trans-Cinnamic Acid         |

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## Carbohydrates

### Monosaccharides

G360 D-(+)-Glucose, Monohydrate  
G386 D-(+)-Glucose, Anhydrous  
F563 D-(-)-Fructose

### Disaccharides

S391 D-Sucrose  
S829 D-Sucrose, Ultra Pure  
M588 D-Maltose, Monohydrate

### Sugar Alcohols

I703 myo-Inositol  
M562 D-Mannitol, USP Grade

## Amino Acids

### Non-polar

G503 Glycine  
A121 L-Alanine  
C204 L-Cystine  
C248 L-Cystine  
L574 L-Leucine  
M539 L-Methionine  
P778 L-Phenylalanine  
P698 L-Proline  
V878 L-Valine

### Polar (Uncharged)

G503 Glycine  
A121 L-Alanine  
C204 L-Cystine  
C248 L-Cystine  
L574 L-Leucine  
M539 L-Methionine  
P778 L-Phenylalanine  
P698 L-Proline  
V878 L-Valine

### Acidic (Negatively Charged)

A117 L-Aspartic Acid  
G399 L-Glutamic Acid

### Basic (Positively Charged)

A143 L-Arginine  
L594 L-Lysine, Monohydrate  
O626 L-Ornithine Hydrochloride

## Solidifying Agents (gelling agents)

### Agar

A111 Agar, MicropropagationGrade  
A133 Agargellan™  
A296 Agar, Tissue Culture Grade  
A175 Agar, Purified Grade

### Carrageenan

C2000 Carrageenan, High Clarity  
C257 Carrageenan, GelcarinGP812®

### GellanGum

G3251 GellanGum Gelzan®  
G434 GellanGum, CultureGel™

## Vitamins

T390 B1 Thiamine Hydrochloride  
R779 B2 Riboflavin  
N609 B3 Niacinamide  
N765 B3 Nicotinic Acid  
A120 B4 Adenine  
C232 B4 Choline Chloride  
C186 B5 Calcium Pantothenate  
P866 B6 Pyridoxine Hydrochloride  
B140 B7 (H) D-Biotin  
C242 B12 Cyanocobalamin  
A103 Bx p-Amino benzoic Acid  
A106 C L-Ascorbic Acid  
V883 D3 Cholecalciferol  
F430 M Folic Acid

### Vitamin Mixes

G249 Gamborg Vitamin Powder (1000x)  
M547 Murashige & Skoog Modified Vitamin Powder (1000x)  
M533 Murashige & Skoog Vitamin Powder (1000x)  
N608 Nitsch & Nitsch Vitamin Powder (1000x)  
C149 Chu N6 Vitamin Solution (1000x)  
E330 Eriksson Vitamin Solution (1000x)  
G219 Gamborg Vitamin Solution (1000x)  
K421 Kao & Michayluk Vitamin Solution (100x)  
M587 Morel & Martin Vitamin Solution (100x)  
M592 Morel & Whetmore Vitamin Solution (100x)  
M557 Murashige& Skoog Modified Vitamin Solution (1000x)  
M553 Murashige& Skoog Vitamin Solution (1000x)  
N603 Nitsch & Nitsch Vitamin Solution (1000x)  
S743 Staba Modified Vitamin Solution (100x)

## Macronutrients / Micronutrients

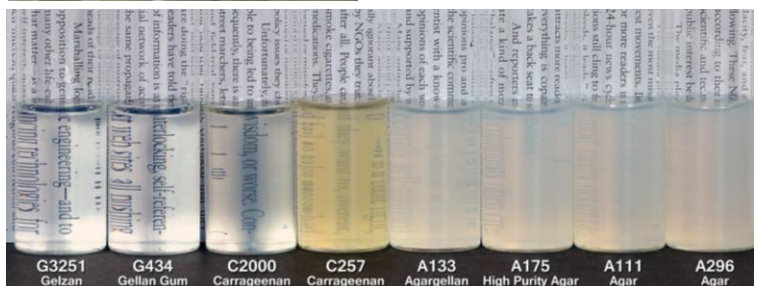
|                |                |                 |
|----------------|----------------|-----------------|
| Nitrogen (N)   | Iron (Fe)      | Iodine (I)      |
| Phosphorus (P) | Manganese (Mn) | Sodium (Na)     |
| Potassium (K)  | Zinc (Zn)      | Chlorine (Cl)   |
| Calcium (Ca)   | Boron (B)      | Molybdenum (Mo) |
| Magnesium (Mg) | Copper (Cu)    |                 |
| Sulfur (S)     | Cobalt (Co)    |                 |

## Undefined Organic Supplements

|                                     |                                        |
|-------------------------------------|----------------------------------------|
| A124 Apple Powder                   | P862 Pineapple Powder                  |
| B852 Banana Powder                  | P692 Potato Powder                     |
| C184 Casein, Enzymatic, Hydrolysate | T872 Tomato Powder                     |
| C325 Charcoal, Activated            | T848 Tryptose                          |
| C187 Coconut Powder                 | W783 Water, Plant Tissue Culture Grade |
| M474 Malt Extract                   | Y892 Yeast Extract                     |
| M567 Meat Extract                   | C195 Coconut Water                     |
| P721 Peptone, From Soymeal          |                                        |
| P780 Peptone, Glysate               |                                        |



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## Laboratory Glassware



Bottle



Youility Bottle



Bottle Laboratory wide mouth



PP Screw cap / Pouring ring



Erlenmeyer Flask



Volumetric Flask



Evaprating Flask



Evaporating Dish



Weighing Bottle



Beaker



Cylinder



Desiccator



Burette



Separating funnel



Funnel



Test Tube



Volumetric Pipette



## Laboratory Plasticware

Measuring  
Cylinder

Beakers

Volumetric  
Flask

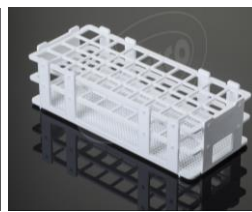
Bottles



Funnel



Petri Dish



Test Tube Stand

Centrifuge  
Tubes

Carboy

## Laboratory Glassware



Burette



Beakers



Petri Dish



Bottles



Test Tubes

Measuring  
CylinderPipette  
Volumetric

Volumetric Flask





QUALITY  
MANAGEMENT SYSTEM (Quality Management System)  
ISO 9001



MEDICAL DEVICES  
CERTIFICATION  
EN ISO 13485

## Liquid Handling

## Pipette Tips



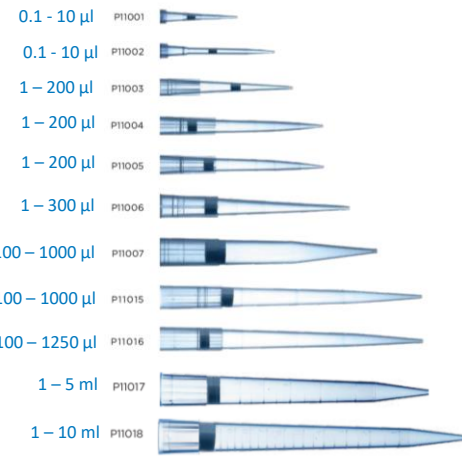
- Pipette Tips, Bulk in Resealable Bags
- Pipette Tips, Racked
- Pipette Tips, Sterile Racked
- Last Drop™ Low Retention Pipette Tips, Bulk in Resealable Bags
- Last Drop™ Low Retention Pipette Tips, Racked
- Last Drop™ Low Retention Pipette Tips, Sterile Racked
- Last Drop™ Low Retention Pipette Tips, Refill Pack
- Filter Pipette Tips, Bulk in Resealable Bags
- Filter Pipette Tips - Racked
- Filter Pipette Tips, Sterile Racked
- Refill Filter Pipette Tips, Sterile
- Last Drop™, Low Retention Filter Pipette Tips, Bulk in Resealable Bags
- Last Drop™, Low Retention Filter Pipette Tips - Racked
- Last Drop™, Low Retention Filter Pipette Tips - Sterile Racked



Bulk in Resealable Bags

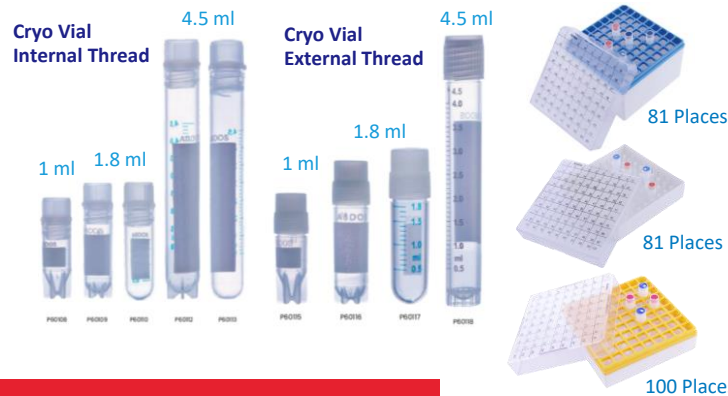


Racked Micro Tips



**Hydrophobic filter** that is additive free and does not absorb samples

## Cryo Techniques



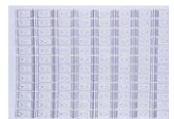
## Pipette Tips

### Features



- The Universal Tip collar fits all popular pipettes. Leak proof fitment
- Free from Bacteriostatic & Fungistatic property.
- DNase, RNase & Pyrogen free.
- Precise Graduation mark for error free pipetting.
- Tips with High clarity for better visibility of samples.
- Reduce Sample retention for precision & to save on costly reagents.

Sealing Films, Aluminium  
Sealing Mats, Silicone  
Sealing Films, Polyester



## Multi Purpose Racks & Boxes

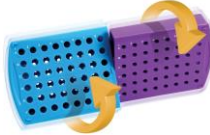
### PCR Workstation Rack



### PCR Workstation Rack



### Twisty Tube Rack



### Combination Rack



### Reversible Rack with Cover



### Frosty Mate™ Storage Racks



### PCR Freezer Color Change Rack



### Centrifuge Tube Box, PP



### Universal Centrifuge Tube Rack



### Rotator Workstation, PP



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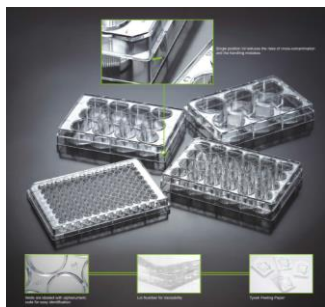


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#### Bio-Reaction Tube



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#### Cell Scraper



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### Centrifuge Tubes



15 ml, 50 ml (Conical / Self-standing)

### Micro centrifuge Tubes



0.5ml, 1.5ml, 2.0ml, 5.0ml

### PCR tube / 8 Strips tube



### 96-well PCR



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#### Metal-Free Centrifuge Tubes



#### Light Sensitive Centrifuge Tubes



#### Easy Flip™ Centrifuge Tubes



#### Centrifugal Filter Unit



#### 30ml Centrifuge Tubes



#### PP Rack for Centrifuge Tubes



#### Pestle for Micro Centrifuge Tubes



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1 ml, 2 ml, 5 ml, 10, 25 ml, 50 ml, 100 ml

#### Mini™ Serological pipets



#### ELISA Plate



#### Luminescence Test Plates



#### Plastic Cuvettes



## ELISA Plates / Serological Pipets

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Spectrophotometer



Lumi : Single Tube Luminometer



Diamond : Fully Automatic  
Immuno – Analyzer (ELISA)



WTC 3000  
Precision Balance



WTC 2000 Precision  
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Analytical Balance



MA 50/1.R  
Moisture Analyzer



Real Time PCR brand  
PCRmax Eco 48 Real Time



Alpha Cyclor 1 PCRmax



Alpha Cyclor 4 PCRmax



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Uvidoc HD6



Uvitec FireReader V10

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Incubator



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Chlorine  
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Iodine  
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Nitrite  
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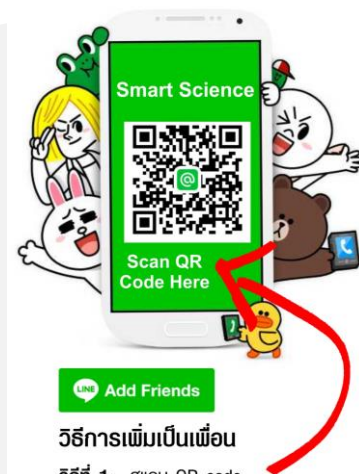


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