

thermo scientific

Chemicals

Cell culture workflow

growth, analysis, processing

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Cell culture workflow



Cell culture is an essential step in cell biology. Life science researchers rely on controlled conditions to grow the cells. Various chemicals and reagents are needed to mimic/manipulate natural environment and to extract biomolecules from cells for further analysis in genomics/proteomics etc.

Our products can support every step of the cell culture workflow; from growth to analysis and on to processing. Our portfolio includes a variety of chemicals and reagents to support three major part of the cell biology workflow:

Growth: cell growth media components like agar, carbohydrates and antibiotics.

Analysis: cell culture chemicals, biological stains and apoptosis reagents that can be used to analyze the cells like microscopy/histology and cellular assays.

Processing: buffers, salts and detergents for processing the grown cells to extract biomolecules like DNA, RNA, lipids and metabolites to be used in downstream applications like genomics/proteomics/lipidomics and metabolomics.

Carbohydrates

| IBS No. | Description | Pack Size | Workflow Step | |
|----------|--|-------------------------|---------------|----------|
| 11493318 | Cellulose, microcrystalline | 10000 g, 2500 g, 500 g | Grow | Upstream |
| 10162660 | D(+)-Cellobiose, 98% | 5 g, 25 g, 100g , 500 g | Grow | Upstream |
| 11482858 | D-(+)-Glucose, anhydrous, 99% | 10000 g, 2500 g, 500 g | Grow | Upstream |
| 15875118 | Dextran sulfate sodium salt, Thermo Scientific | 10 g, 50 g, 100 g | Grow | Upstream |
| 11427916 | D-Mannitol, 97+% | 1000 g, 5000 g, 250 g | Grow | Upstream |
| 15457869 | Maltotriose, 98% | 1 g, 5 g | Grow | Upstream |

Buffers and salts

| IBS No. | Description | Pack Size | Workflow Step | |
|----------|--|---------------------------------|---------------|------------|
| 15805298 | Glycine, 98.5-101.5% (dry basis), Thermo Scientific | 1 kg, 5 kg, 25 kg | Process | Downstream |
| 15493429 | HEPES, 1.0M buffer soln., pH 7.5 | 250 mL, 500mL | Process | Downstream |
| 15440257 | HEPES-buffered saline, pH 7.0 (2X for transfection) | 250 mL, 500 mL | Process | Downstream |
| 15895158 | Imidazole, 98.5+% (dry basis), Ultrapure, Thermo Scientific | 100 g, 500 g, 1 kg, 5 kg, 10 kg | Process | Downstream |
| 15428779 | Krebs-Ringer Solution, HEPES-buffered | 500 mL, 1 L | Process | Downstream |
| 11499723 | MOPS, 99% | 25 g, 100 g, 500 g | Process | Downstream |
| 15434695 | Phosphate-buffered saline (DPBS, 1X), Dulbecco's formula, without calcium, without magnesium | 500 mL, 1 L | Process | Downstream |
| 15414499 | Phosphate-buffered saline (PBS, 10X), pH 7.4 | 1 L, 2 L, 4 L | Process | Downstream |
| 15453819 | Phosphate-buffered saline (PBS, 1X), sterile-filtered | 500 mL | Process | Downstream |
| 15465269 | RBC lysis buffer for human | 250 mL, 500 mL | Process | Downstream |
| 15825478 | Tricine, 98.5+% (dry basis), Ultrapure, Thermo Scientific | 100 g, 500 g, 1 kg | Process | Downstream |
| 15440277 | TRIS-buffered saline (TBS, 10X) pH 7.4, for Western blot | 1 L, 2 L, 4 L | Process | Downstream |

Cell culture media

| IBS No. | Description | Pack Size | Workflow Step | |
|----------|--|----------------------|---------------|----------|
| 11352699 | Agar, plant cell culture tested | 2500 g, 100 g, 500 g | Grow | Upstream |
| 15865058 | Agar, Thermo Scientific | 1 lb, 5 lb, 25 lb | Grow | Upstream |
| 15455669 | Gellan Gum | 250 g, 1 kg | Grow | Upstream |
| 11346849 | Yeast Extract | 100 g, 500 g | Grow | Upstream |
| 11326759 | Yeast Nitrogen Base, without amino acids, without ammonium sulfate | 100 g, 500 g | Grow | Upstream |

Cell culture chemicals

| IBS No. | Description | Pack Size | Workflow Step | |
|----------|--|------------------------------------|---------------|------------|
| 15408099 | Dimethyl sulfoxide, Bioreagent | 50 mL, 100 mL, 250 mL, 500 mL, 1 L | Analyze | Downstream |
| 15825188 | DL-Serine, non-animal, 98.5+%, Thermo Scientific | 100 g, 1 kg | Grow | Upstream |
| 15413179 | Formaldehyde, 4% in PBS | 250 mL, 500 mL | Analyze | Downstream |
| 15424389 | Paraformaldehyde, 4% in PBS | 250 mL, 500 mL | Analyze | Downstream |
| 11320338 | Polyvinylpyrrolidone, M.W. 1,300,000 | 50 g, 250 g, 1 kg | Analyze | Downstream |
| 15454799 | Polyvinylpyrrolidone, M.W. 40,000 | 100 g, 500 g, 1 kg | Analyze | Downstream |
| 12605117 | Sodium azide, 99+%, for biochemistry | 25 g, 100 g, 500 g | Process | Downstream |

Apoptosis

| IBS No. | Description | Pack Size | Workflow Step | |
|----------|---|--------------------------|---------------|------------|
| 15495729 | Antimycin A | 5 mg, 10 mg | Analyze | Downstream |
| 15464739 | Brefeldin A, 99% | 10 mg, 25 mg, 50 mg | Analyze | Downstream |
| 15484889 | Camptothecin | 1 g, 5 g, 250 mg | Analyze | Downstream |
| 15483199 | Carboplatin | 1 g, 5 g | Analyze | Downstream |
| 15472989 | Docetaxel, 99% | 1 g, 100 mg, 500 mg | Analyze | Downstream |
| 15486139 | Doxorubicin hydrochloride | 10 mg, 50 mg | Analyze | Downstream |
| 11456440 | Hypericin, 98% | 5 g, 25 g, 25 mg, 100 mg | Analyze | Downstream |
| 15443159 | Kaempferol, 98+% | 10 mg, 50 mg | Analyze | Downstream |
| 15464829 | Melatonin, 99+% | 5 g, 25 g | Analyze | Downstream |
| 15425459 | Mitomycin C | 5 mg, 1 mg, 10 mg | Analyze | Downstream |
| 15470347 | N,N,N',N'-Tetrakis-(2-pyridylmethyl)ethylenediamine | 300 mg, 100 mg | Analyze | Downstream |
| 15405049 | Paclitaxel, 99.5+% | 1 g, 100 mg, 500 mg | Analyze | Downstream |
| 15464249 | Suramin hexasodium salt, 98+% | 1 g, 250 mg, 500 mg | Analyze | Downstream |
| 15475719 | Tamoxifen, 98% | 1 g, 5 g, 500 mg | Analyze | Downstream |

Antibiotics

| IBS No. | Description | Pack Size | Workflow Step | |
|----------|--|-------------------------|---------------|----------|
| 11445786 | (R,R)-Chloramphenicol, 99+% | 25 g, 100 g | Grow | Upstream |
| 15414429 | Carbenicillin disodium salt | 1 g, 5 g, 25 g | Grow | Upstream |
| 10159861 | Cycloheximide, 95% | 1 g, 5 g, 25 g | Grow | Upstream |
| 10030920 | Ethylmercurithiosalicylic acid, sodium salt, 97.0-101.0% | 5 g, 25 g, 100 g, 500 g | Grow | Upstream |
| 15493409 | Hygromycin B | 1 g, 100 mg, 250 mg | Grow | Upstream |
| 15815168 | Kanamycin sulfate, Ultrapure, Thermo Scientific | 5 g, 25 g | Grow | Upstream |
| 15444809 | Oxytetracycline, 96% | 10 g, 50 g, 100 g | Grow | Upstream |
| 15480717 | Puromycin, 10 mg/ml in distilled water, sterile-filtered | *5 x 1 mL, 1 mL | Grow | Upstream |
| 15444809 | Rapamycin, 99+% | 200 mg, 100 mg, 50 mg | Grow | Upstream |
| 15470207 | Spectinomycin dihydrochloride pentahydrate, Cell Culture Grade | 5 g, 25 g | Grow | Upstream |
| 15485089 | Vancomycin hydrochloride, Molecular Biology Grade | 1 g, 5 g | Grow | Upstream |
| 15488649 | Zeocin™ 100 mg/ml in HEPES, sterile-filtered | *5 x 1 mL, 1 mL | Grow | Upstream |

Biological stains

| IBS No. | Description | Pack Size | Workflow Step | |
|----------|--|------------------|---------------|------------|
| 11419803 | Basic fuchsin | 5 g, 25 g, 100 g | Analyze | Downstream |
| 11450947 | Light green SF Yellowish | 10 g, 50 g | Analyze | Downstream |
| 10742081 | Orange G, 85+%, pure, high purity biological stain | 25 g, 100 g | Analyze | Downstream |

Detergents

| IBS No. | Description | Pack Size | Workflow Step | |
|----------|--|---------------------------------|---------------|------------|
| 15456649 | N-Lauroylsarcosine sodium salt, ultrapure, 97% | 50 g | Process | Downstream |
| 11479123 | Sodium n-dodecyl sulfate, 99% (dry wt.), water <1.5% | 25 g, 50 g, 100 g, 250 g, 500 g | Process | Downstream |
| 11408706 | Triton® X-100 | 100 mL, 500 mL, 2500 mL | | |
| 10537372 | Triton® X-114 | 500 mL, 2.5 L | Process | Downstream |

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