

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

Fisher Scientific Cat. No.	Description	Pack Size	Workflow Step	
AAA17730	Cellulose, microcrystalline	10000 g, 2500 g, 500 g	Grow	Upstream
AA13236	D(-)-Ribose, 99+%	5 g, 25 g, 100 g, 500 g	Grow	Upstream
AA10846	D(+)-Cellobiose, 98%	5 g, 25 g, 100g , 500 g	Grow	Upstream
AA15061	D(+)-Galactose, 99+%	1 kg, 5 kg, 25 kg, 100 kg, 500 kg	Grow	Upstream
AAA16828	D-(+)-Glucose, anhydrous, 99%	10000 g, 2500 g, 500 g	Grow	Upstream
AA15060	D(+)-Mannose, 99+%	1 kg, 2.5 kg, 25 kg, 100 kg	Grow	Upstream
AAJ21060	D-(+)-Raffinose pentahydrate, Thermo Scientific	100 g, 500 g, 1 kg	Grow	Upstream
AA18255	D(+)-Trehalose dihydrate, 99%	2.5 kg, 25 kg, 100 kg, 500 kg	Grow	Upstream
AAJ14489	Dextran sulfate sodium salt, Thermo Scientific	10 g, 50 g, 100 g	Grow	Upstream
AAA14030	D-Mannitol, 97+%	1000 g, 5000 g, 250 g	Grow	Upstream
AA13273	D-Sorbitol, 97%	1 kg, 2.5 kg, 5 kg, 10 kg, 100 kg, 500 kg	Grow	Upstream
AAJ16445	Glycogen, from oysters, Ultrapure, Thermo Scientific	5 g, 25 g, 100 g	Grow	Upstream
AA23537	Inositol hexaphosphoric acid, 50 wt% aqueous solution	1 L, 2.5 L, 250 mL	Grow	Upstream
AA10498	L(+)-Arabinose, 99+%	25 g, 100 g, 500 g	Grow	Upstream
AA17408	L(+)-Rhamnose monohydrate, 99%	25 g, 100 g, 500 g	Grow	Upstream
AAJ66491	Maltotriose, 98%	1 g, 5 g	Grow	Upstream

Buffers and salts

Fisher Scientific Cat. No.	Description	Pack Size	Workflow Step
AA16887	2,2-Bis(hydroxymethyl)-2,2',2''-nitrilotriethanol, 99+%	2.5 kg, 100 g, 500 g	Process Downstream
AA21497	Cacodylic acid, sodium salt trihydrate, 98%, pure	10 g, 25 g, 100 g, 500 g	Process Downstream
AAJ16405	Glycine, 98.5-101.5% (dry basis), Thermo Scientific	1 kg, 5 kg, 25 kg	Process Downstream
AAJ60712	HEPES, 1.0M buffer soln., pH 7.5	250 mL, 500mL	Process Downstream
AA17257	HEPES, 99%, for biochemistry	1 kg, 5 kg, 25 kg, 100 kg, 250 kg	Process Downstream
AAJ62623	HEPES-buffered saline, pH 7.0 (2X for transfection)	250 mL, 500 mL	Process Downstream
AAJ17525	Imidazole, 98.5+% (dry basis), Ultrapure, Thermo Scientific	100 g, 500 g, 1 kg, 5 kg, 10 kg	Process Downstream
AAJ67795	Krebs-Ringer Solution, HEPES-buffered	500 mL, 1 L	Process Downstream
AA17259	MES hydrate, 99+%, for biochemistry	2.5 kg, 25 g, 100 g, 500 g	Process Downstream
AAA12914	MOPS, 99%	25 g, 100 g, 500 g	Process Downstream
AAJ67653	Phosphate-buffered saline (DPBS, 10X), Dulbecco's formula, without calcium, without magnesium	500 mL, 1 L	Process Downstream
AAJ67802	Phosphate-buffered saline (DPBS, 1X), Dulbecco's formula, without calcium, without magnesium	500 mL, 1 L	Process Downstream
AAJ62036	Phosphate-buffered saline (PBS, 10X), pH 7.4	1 L, 2 L, 4 L	Process Downstream
AAJ62851	Phosphate-buffered saline (PBS, 10X), RNase free	250 mL, 500 mL	Process Downstream
AAJ61196	Phosphate-buffered saline (PBS, 1X), sterile-filtered	500 mL	Process Downstream
AAJ62990	RBC lysis buffer for human	250 mL, 500 mL	Process Downstream
AAJ22561	Tricine, 98.5+% (dry basis), Ultrapure, Thermo Scientific	100 g, 500 g, 1 kg	Process Downstream
AA32734	Tris EDTA buffer, for molecular biology, DNase, RNase, Protease free ready to use, pH 8.0	500 mL	Process Downstream
AA22803	Tris(hydroxymethyl)aminomethane hydrochloride, 99+%, extra pure	1 kg, 5 kg, 100 g, 250 g	Process Downstream
AA14050	Tris(hydroxymethyl)aminomethane, 99+%, for biochemistry	1 kg, 2.5 kg, 10 kg, 500g	Process Downstream
AAJ62938	TRIS-buffered saline (TBS, 10X) pH 7.4, for Western blot	1 L, 2 L, 4 L	Process Downstream

Cell culture media

Fisher Scientific Cat. No.	Description	Pack Size	Workflow Step
AAH26724	Agar, plant cell culture tested	2500 g, 100 g, 500 g	Grow Upstream
AAJ10654	Agar, Thermo Scientific	1 lb, 5 lb, 25 lb	Grow Upstream
AAJ64655	Albumin, Bovine, Fraction V, 97%, Standard Grade, pH 7.0	10 g, 50 g, 100 g, 250 g, 1 kg	Grow Upstream
AAJ63423	Gellan Gum	250 g, 1 kg	Grow Upstream
AAJ61525	LB Agar plate, plain	20 plates	Grow Upstream
AAJ75851	LB Agar, Ready-Made Powder, Thermo Scientific	1 kg	Grow Upstream
AAJ75852	LB Broth, Ready-Made Powder, Thermo Scientific	250 g, 1 kg	Grow Upstream
AAJ75854	Luria Broth (LB), Ready-Made Powder, Thermo Scientific	1 kg	Grow Upstream
AAJ75856	Terrific Broth, Ready-Made Powder, Ultrapure, Thermo Scientific	1 kg	Grow Upstream
AAH26769	Yeast Extract	100 g, 500 g	Grow Upstream
AAH26271	Yeast Nitrogen Base, without amino acids, without ammonium sulfate	100 g, 500 g	Grow Upstream

Cell culture chemicals

Fisher Scientific Cat. No.	Description	Pack Size	Workflow Step
AAJ66650	Dimethyl sulfoxide, Bioreagent	50 mL, 100 mL, 250 mL, 500 mL, 1 L	Analyze Downstream
AAJ21486	DL-Serine, non-animal, 98.5+%, Thermo Scientific	100 g, 1 kg	Grow Upstream
AAJ60401	Formaldehyde, 4% in PBS	250 mL, 500 mL	Analyze Downstream
AA44709	N,N-Dimethylformamide, 99.9%, for biochemistry, AcroSeal™	1 L, 2.5 L	Analyze Downstream
AAJ61899	Paraformaldehyde, 4% in PBS	250 mL, 500 mL	Analyze Downstream
AA043728	Polyvinylpyrrolidone, M.W. 1,300,000	50 g, 250 g, 1 kg	Analyze Downstream
AAJ62417	Polyvinylpyrrolidone, M.W. 40,000	100 g, 500 g, 1 kg	Analyze Downstream
AA44781	Sodium azide, 99+%, for biochemistry	25 g, 100 g, 500 g	Process Downstream

Apoptosis

Fisher Scientific Cat. No.	Description	Pack Size	Workflow Step	
AAJ63522	Antimycin A	5 mg, 10 mg	Analyze	Downstream
AAJ62340	Brefeldin A, 99%	10 mg, 25 mg, 50 mg	Analyze	Downstream
AAJ62523	Camptothecin	1 g, 5 g, 250 mg	Analyze	Downstream
AAJ60433	Carboplatin	1 g, 5 g	Analyze	Downstream
AA22712	Colchicine, 97%	1 g, 5 g, 25 g, 500 mg	Analyze	Downstream
AAJ60174	Docetaxel, 99%	1 g, 100 mg, 500 mg	Analyze	Downstream
AAJ64000	Doxorubicin hydrochloride	10 mg, 50 mg	Analyze	Downstream
AA11774	Ellagic acid, 97%	2.5 g, 10 g, 50 g	Analyze	Downstream
AAH26425	Hypericin, 98%	5 g, 25 g, 25 mg, 100 mg	Analyze	Downstream
AAJ60373	Kaempferol, 98+%	10 mg, 50 mg	Analyze	Downstream
AAJ62452	Melatonin, 99+%	5 g, 25 g	Analyze	Downstream
AAJ63193	Mitomycin C	5 mg, 1 mg, 10 mg	Analyze	Downstream
AAJ64206	N,N,N',N'-Tetrakis-(2-pyridylmethyl)ethylenediamine	300 mg, 100 mg	Analyze	Downstream
AA45613	Oxaliplatin, 99%	100 mg	Analyze	Downstream
AAJ62734	Paclitaxel, 99.5+%	1 g, 100 mg, 500 mg	Analyze	Downstream
AAJ61707	Suramin hexasodium salt, 98+%	1 g, 250 mg, 500 mg	Analyze	Downstream
AAJ63509	Tamoxifen, 98%	1 g, 5 g, 500 mg	Analyze	Downstream

Antibiotics

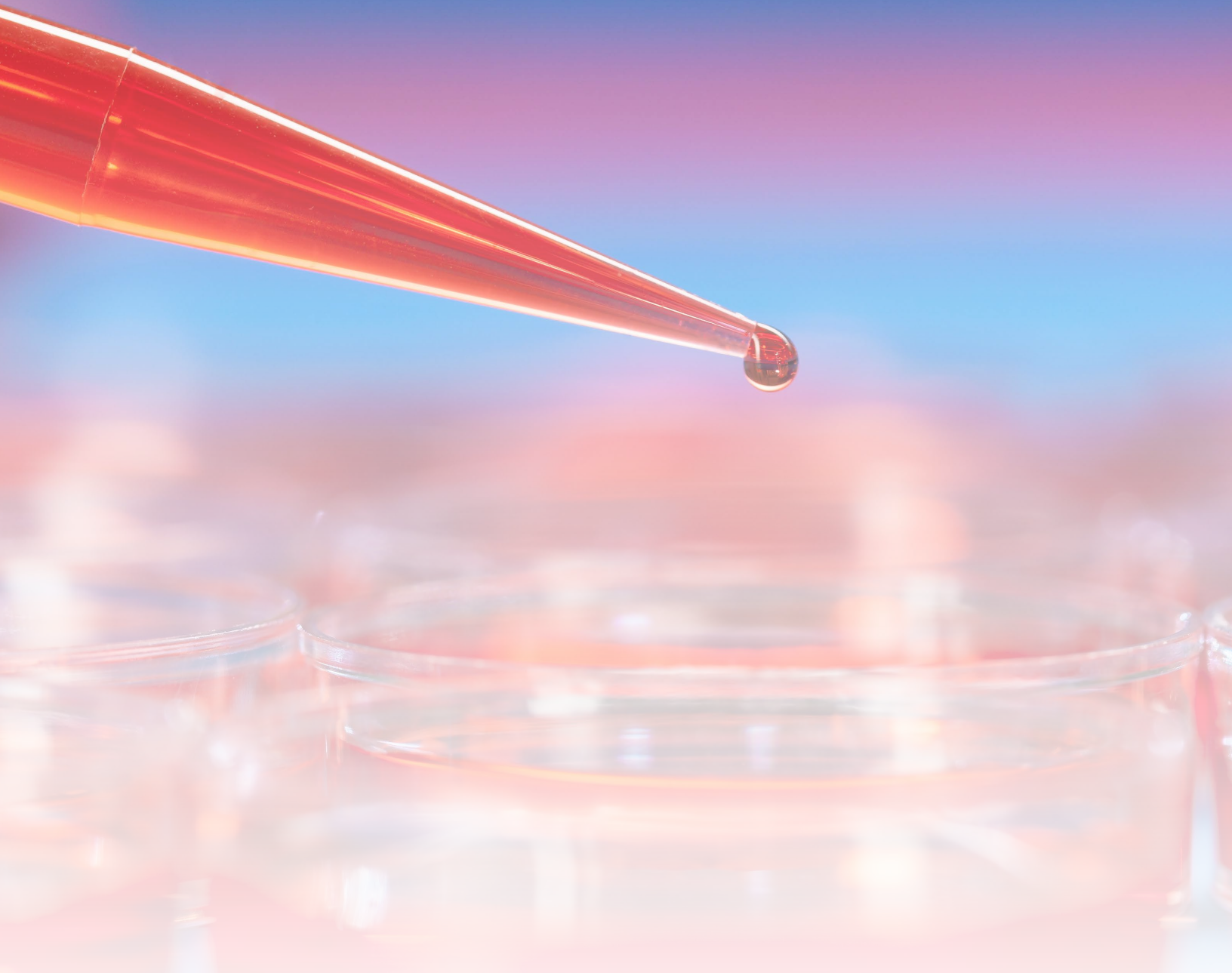
Fisher Scientific Cat. No.	Description	Pack Size	Workflow Step	
AAB20841	(R,R)-Chloramphenicol, 99+%	25 g, 100 g	Grow	Upstream
AA25771	4-Epioxytetracycline, 'can be used as secondary standard'	100 mg	Grow	Upstream
AA23312	4-Epitetracycline hydrochloride, 'can be used as a secondary standard'	100 mg, 500 mg	Grow	Upstream
AA23313	Anhydrotetracycline hydrochloride, 'can be used as a secondary standard'	100 mg, 500 mg	Grow	Upstream
AAJ61949	Carbenicillin disodium salt	1 g, 5 g, 25 g	Grow	Upstream
AA22792	Chloramphenicol, 98%	25 g, 100 g, 500 g	Grow	Upstream
AA35742	Cycloheximide, 95%	1 g, 5 g, 25 g	Grow	Upstream
AA22848	D-Cycloserine, 98%	1 g, 5 g, 25 g	Grow	Upstream
AA11868	Ethylmercurithiosalicylic acid, sodium salt, 97.0-101.0%	5 g, 25 g, 100 g, 500 g	Grow	Upstream
AAJ60681	Hygromycin B	1g, 100 mg, 250 mg	Grow	Upstream
AAJ17924	Kanamycin sulfate, Ultrapure, Thermo Scientific	5 g, 25 g	Grow	Upstream
AA22694	Mitomycin C, contains 2 mg Mitomycin C and 48 mg NaCl	2 mg	Grow	Upstream
AAJ62427	Oxytetracycline, 96%	10 g, 50 g, 100 g	Grow	Upstream
AAJ67236	Puromycin, 10 mg/ml in distilled water, sterile-filtered	*5 x 1 mL, 1 mL	Grow	Upstream
AAJ62473	Rapamycin, 99+%	200 mg, 100 mg, 50 mg	Grow	Upstream
AAJ61820	Spectinomycin dihydrochloride pentahydrate, Cell Culture Grade	5 g, 25 g	Grow	Upstream
AA13285	Sulfanilamide, 98%	2.5 kg, 100 g, 500 g	Grow	Upstream
AAJ62790	Vancomycin hydrochloride, Molecular Biology Grade	1 g, 5 g	Grow	Upstream
AAJ67140	Zeocin™ 100 mg/ml in HEPES, sterile-filtered	*5 x 1 mL, 1 mL	Grow	Upstream

Biological stains

Fisher Scientific Cat. No.	Description	Pack Size	Workflow Step	
AA22790	Acid Fuchsin, pure, high purity biological stain	25 g, 100 g, 500 g	Analyze	Downstream
AA22966	Aniline Blue, sodium salt, pure, water soluble, high purity biological stain	25 g, 100 g	Analyze	Downstream
AAA12952	Basic fuchsin	5 g, 25 g, 100 g	Analyze	Downstream
AA22959	Brilliant cresyl Blue, pure, high purity biological stain	10 g, 25 g	Analyze	Downstream
AA22960	Brilliant Green, pure, high purity biological stain	100 g, 500 g	Analyze	Downstream
AA19020	Carmine, pure, high purity biol.stain, alum lake of carminic acid	5 g, 25 g, 100 g	Analyze	Downstream
AA15323	Giemsa Stain, pure, high purity biological stain	5 g, 25 g	Analyze	Downstream
AA19168	Janus Green B, pure, high purity biological stain	5 g, 25 g	Analyze	Downstream
AAB23330	Light green SF Yellowish	10 g, 50 g	Analyze	Downstream
AA61185	Light Green SF, Yellowish, pure, Certified biological stain	25 g	Analyze	Downstream
AA18948	Nigrosine, pure, water soluble, high purity biological stain	25 g, 100 g	Analyze	Downstream
AA22982	Orange G, 85+%, pure, high purity biological stain	25 g, 100 g	Analyze	Downstream
AA22788	Pararosanine chloride, pure, high purity biological stain	5 g, 25 g, 100 g, 500 g	Analyze	Downstream
AA18947	Phloxine B, 85%, pure, high purity, Biological stain	5 g, 25 g	Analyze	Downstream
AA20010	Pyronin Y, pure, high purity biological stain	1 g, 5 g, 25 g	Analyze	Downstream
AA18990	Resazurin, sodium salt, pure, high purity biological stain	1 g, 5 g, 25 g	Analyze	Downstream

Detergents

Fisher Scientific Cat. No.	Description	Pack Size	Workflow Step	
AAJ64928	N-Lauroylsarcosine sodium salt, ultrapure, 97%	50 g	Process	Downstream
AA23336	Polysorbate 20	5 mL, 250 mL, 1 L, 5 L, 25 L	Process	Downstream
AA27863	Polysorbate 80	250 mL, 1 L, 2.5 L, 10 L	Process	Downstream
AAJ62288	Sodium deoxycholate, 97%	25 g, 100 g, 250 g	Process	Downstream
AAA11183	Sodium n-dodecyl sulfate, 99% (dry wt.), water <1.5%	25 g, 50 g, 100 g, 250 g, 500 g	Process	Downstream
AA46426	Tergitol™ 15-S-40, 70% solution in water	250 mL, 1 L, 2.5 LT	Process	Downstream
AA46425	Tergitol™ 15-S-9	250 mL, 1 L, 2.5 L, 10 L	Process	Downstream
AAA16046	Triton® X-100	100 mL, 500 mL, 2500 mL		
AA42236	Triton® X-114	500 mL, 2.5 L	Process	Downstream



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