

## SECTION 1: IDENTIFICATION

Cell Line Product Name	Product Description	Product Code (prefix)	Product Code (suffix)	Recommended Product Use
RK	Primary Rabbit Kidney	101	T=Tube V=Vial 25=25 cm <sup>2</sup> Flask 75=75 cm <sup>2</sup> Flask 175=175 cm <sup>2</sup> Flask 24=24 Multi-well Plate 48=48 Multi-well Plate 96=96 Multi-well Plate	Viral isolation, identification, and detection for diagnostics, research, development, or industrial purposes.
RMK	Primary Rhesus Monkey Kidney	102		
RMKa	Primary Rhesus Monkey Kidney w/ SV5 & SV40	103		
A549	Human Lung Carcinoma	201		
BGMK	Buffalo Green Monkey Kidney	202		
HEp-2	Human Cervix Carcinoma	203		
McCoy	Mouse Fibroblast	204		
McCoy Lights	Mouse Fibroblast	205		
MRC-5	Human Lung Fibroblast	206		
HFF	Human Foreskin Fibroblast	207		
Vero	African Green Monkey Kidney	208		
WI-38	Human Lung Fibroblast	209		
MDCK	Madin-Darby Canine Kidney	210		

Media Product Name	Product Description	Product Code (prefix)	Product Code (suffix)	Recommended Product Use
MEM-0	Minimum Essential Medium-0% FBS	401	50=50 mL Bottle 100=100 mL Bottle 500=500 mL Bottle	Support growth and maintenance of cell cultures.
MEM-2	Minimum Essential Medium-2% FBS	402		
MEM-5	Minimum Essential Medium-5% FBS	403		
MEM-10	Minimum Essential Medium-10% FBS	404		
CIM-10	Chlamydia Isolation Medium-10% FBS	405		

**Supplier/Manufacturer:** CellPro Labs  
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Minneapolis, MN 55414

**Telephone:** 1-877-350-6446  
**Fax:** 612-877-9213  
**Product Information:** 1-877-350-6446  
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**Emergency:** Call your local emergency responder.





## SECTION 2: HAZARDS IDENTIFICATION

Component	Hazard Classification (category)	Signal Word	Hazard & Precautionary Statements
Amphotericin B	Acute Toxicity-oral (5), Skin Irritation (2), Eye Irritation (2A), Specific Target Organ Toxicity-SE (3)	Warning	Irritant: H303, H315, H319, H335, P261, P305 + P351 + P338
Cycloheximide	Acute Toxicity-oral (1), Skin Irritation (2), Germ Cell Mutagenicity (2), Reproductive Toxicity (1B), Acute Aquatic Toxicity (2), Chronic Aquatic Toxicity (2)	Danger	Acute Toxicity, Health Hazard, Environmental: H300, H315, H341, H360, H401, H411, P201, P202, P264, P270, P273, P280, P301 + P310, P302 + P352, P308 + P313, P321, P330, P332 + P313, P362, P391, P405, P501
D-Valine	No known OSHA hazards.	N/A	Not a dangerous substance.
Fetal Bovine Serum	No known OSHA hazards.	N/A	Not a dangerous substance.
Gentamicin	Respiratory Sensitization (1), Skin Sensitization (1)	Danger	Health Hazard: H317, H334, P261, P272, P280, P285, P302 + P352, P304 + P341, P321, P333 + P311, P363, P501
HEPES Buffer Solution 1M	Not a hazardous substance or mixture.	N/A	Not a hazardous substance or mixture.
L-15 Medium	No known OSHA hazards	N/A	Not a dangerous substance or mixture.
L-Glutamine	Not a hazardous substance or mixture.	N/A	Not a hazardous substance or mixture.
Minimum Essential Medium (1x)	Not hazardous.	N/A	Not hazardous.
Penicillin G potassium salt	Skin Sensitization (1)	Warning	Irritant: H317, P280
Streptomycin sulfate salt	Acute Toxicity-oral (4), Reproductive Toxicity (2)	Warning	Health Hazard, Irritant: H302, H361, P201, P202, P264, P270, P281, P301 + P312, P308 + P313, P330, P405, P501
Sucrose	Not a hazardous substance or mixture.	N/A	Not a hazardous substance or mixture.

## Hazard Statements

H300	Fatal if swallowed.
H302	Harmful if swallowed.
H303	May be harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.
H360	May damage fertility for the unborn child.
H361	Suspected of damaging fertility or the unborn child.
H401	Toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

## Pictograms

	
Irritant	Acute Toxicity
	
Health Hazard	Environmental

### Precautionary Statements

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink, or smoke when using this product.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves.
P281	Use personal protective equipment as required.
P285	In case of inadequate ventilation wear respiratory protection.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P341	IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	If exposed or concerned: Get medical advice/attention.
P321	Specific treatment.
P330	Rinse mouth.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P342 + P311	If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
P362	Take off contaminated clothing and wash before reuse.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents/container to an approved waste disposal plant.

**Hazards not otherwise classified:** Primary Rhesus Monkey Kidney (RMK) cell lines may contain endogenous viruses, such as simian viruses, foamy viruses, adenoviruses, Herpes B virus, etc., which may be hazardous to humans.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Component	Synonyms	CAS Number	EC Number	Impurities & Stabilizing Additives	Concentration
Amphotericin B	Fungizone, Amphotericin B form Streptomyces sp.	1397-89-3	215-742-2	Sodium 3- $\alpha$ , 12- $\alpha$ -dihydroxy-5- $\beta$ -cholan-24-oate	< 1%
Sodium 3- $\alpha$ , 12- $\alpha$ -dihydroxy-5- $\beta$ -cholan-24-oate	No data is available.	302-95-4	206-132-7	No data is available.	< 1%
Cycloheximide	Actidione, Naramycin A, 3-[2-(3,5-Dimethyl-2-oxocyclohexyl)-2-hydroxyethyl]glutarimide	66-81-9	200-636-0	No data is available.	< 1%
D-Valine	D-2-Amino-3-methylbutanoic acid, (R)- $\alpha$ -Aminoisovaleric acid	640-68-6	Unlisted	No data is available.	-
Fetal Bovine Serum	No data is available.	Unlisted	Unlisted	No data is available.	-
Gentamicin	Gentamicin sulfate salt	1405-41-0	215-778-9	No data is available.	1%
HEPES Buffer Solution 1M	No data is available.	Unlisted	Unlisted	No data is available.	-
L-15 Medium	Leibovitz Medium	Unlisted	Unlisted	No data is available.	-
L-Glutamine	No data is available.	56-85-9	Unlisted.	No data is available.	-
Minimum Essential Medium	MEM (1X)	Unlisted	Unlisted	No data is available.	-
Penicillin G potassium salt	Benzylpenicillin	113-98-4	204-038-0	No data is available.	< 1%
Streptomycin sulfate salt	No data is available.	3810-74-0	223-286-0	No data is available.	5%
Sucrose	D- Sucrose, Cane Sugar, Saccharose, Sugar (Molecular Biology/Crystalline/ Certified ACS/NF/EP/BP/JP)	57-50-1	200-334-9	No data is available.	-

### SECTION 4: FIRST-AID MEASURES

**General Advice:** Consult a physician. Show this safety data sheet to the physician in attendance. Move out of the dangerous area.

**If Inhaled:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**If Ingested:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. Do not induce vomiting without medical advice.

**Skin Contact:** Wash off with soap and plenty of water for at least 15 minutes. Take victim immediately to hospital. Consult a physician.

**Eye Contact:** Rinse thoroughly with plenty of water for at least 15 minutes. Consult a physician.

**Most Important Symptoms or Effects & Acute or Delayed Symptoms:** The most important know symptoms or effects are listed in section 2 and/or section 11.

**Immediate Medical Care or Special Treatment:** Treat symptomatically.

### SECTION 5: FIRE-FIGHTING MEASURES

**Suitable Extinguishing Equipment:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

**Unsuitable Extinguishing Equipment:** No data is available

**Specific Hazards:** Hazardous decomposition products are formed under fire conditions including carbon oxides, nitrogen oxides, sulfur oxides, hydrogen chloride gas, sodium oxides, and potassium oxides. Keep product and empty container away from heat and sources of ignition.

**Special Protective Equipment & Precautions for Firefighters:** Wear self-contained breathing apparatus and full protective gear for firefighting.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**Personal Precautions & Personal Equipment:** Avoid breathing vapors, mist, or gas. Use personal protective equipment (see section 8). Ensure adequate ventilation.

**Emergency Procedures:** Evacuate personnel to safe areas.

**Containment Methods & Materials:** Keep in suitable, closed containers for disposal.

**Cleanup Procedures:** Soak up with inert absorbent material and dispose of in closed containers as hazardous waste per local regulations. Prevent further leakage or spillage if safe to do so.

**SECTION 7: HANDLING AND STORAGE**

**Handling:** Avoid contact with skin, eyes, and clothing. Avoid inhalation of vapor or mist. Avoid formation of aerosols. Provide appropriate exhaust ventilation. Handle and open the container with care. Remove and clean contaminated clothing. Wear appropriate PPE.

**Storage:** Keep upright, or in a slanted position for tubes, to prevent leakage. Do not store in direct sunlight. Keep away from direct heat sources. Recommended cell line storage temperature: 35°C-37°C. Recommended media storage temperature: 2°C-8°C.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sucrose	TWA: 10mg/m <sup>3</sup>	(Vacated) TWA: 15mg/m <sup>3</sup> , (Vacated) TWQ: 5mg/m <sup>3</sup> , TWA: 15mg/m <sup>3</sup> , TWA: 5mg/m <sup>3</sup>	TWA: 10mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup>

**Engineering Controls:** Avoid contact with skin, eyes, & clothing. Wash hands before breaks, at the end of the workday, & after handling the product. Handle in accordance with good industrial hygiene & safety practices. Ensure eye wash stations & safety showers are close to the working area.

**Personal Protective Equipment & Requirements:**

Respiratory Protection	Respiratory protection not required, general ventilation is sufficient.
Hand Protection	Handle with impervious gloves. Gloves must be inspected prior to use. Use proper glove removal technique to avoid skin contact. Dispose of contaminated gloves after use in accordance with local regulations. Wash and dry hands.
Eye Protection	Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH.
Skin & Body Protection	Wear impervious clothing to prevent skin exposure. The type of protected equipment must be selected according to the concentrations and amount of the dangerous substance at the specific workplace.
Hygiene Measures	General industrial hygiene practice should be followed.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	Clear liquid, light pink-orange in color.	Boiling Range	No data available
Odor	Odorless	Solubility	No data available
Odor Threshold	No data available	Flash Point	No data available
Vapor Pressure	No data available	Evaporation Rate	No data available
Vapor Density	No data available	Partition Coefficient: n-cotanol/water	No data available
pH	7.2	Auto-Ignition Temperature	No data available
Relative Density	No data available	Decomposition Temperature	No data available
Melting Point	No data available	Viscosity	No data available
Freezing Point	No data available	Flammability	No data available
Initial Boiling Point	No data available	Upper/Lower Flammability or Explosive Limits	No data available

**SECTION 10: STABILITY AND REACTIVITY**

**Reactivity:** No data available.

**Chemical Stability:** Stable under recommended storage conditions.

**Possibility of Hazardous Reactions:** No data available.

**Conditions to Avoid:** Keep product and empty container away from heat and sources of ignition.

**Incompatible Materials:** Incompatible materials include oxidizing agents, bases, heavy metal salts, acids, acid anhydrides, and acid chlorides.

**Hazardous Decomposition Products:** Hazardous decomposition products formed include carbon oxides, nitrogen oxides, sulfur oxides, hydrogen chloride gas, sodium oxides, and potassium oxides.

**SECTION 11: TOXICOLOGY INFORMATION**

Component	Routes of Exposure	Effects – Delayed, Immediate, Short & Long Term	Toxicity (LD50)	Symptoms
Amphotericin B	No data available	May be harmful if inhaled, swallowed, or absorbed through skin. Causes respiratory tract, skin, and eye irritation. Target organ is kidneys.	No data available	No data available
Cycloheximide	Oral – rat Skin - rabbit	Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals. Laboratory experiments and in vitro test have shown mutagenic effects. May cause congenital malformation in the fetus. Presumed human reproductive toxicant.	2mg/kg (oral)	Skin irritation within 24 hours. Liver irregularities based on human evidence.
D-Valine	Intraperitoneal - rat	May be harmful if inhaled, swallowed, or absorbed through skin. May cause respiratory tract, skin, and eye irritation.	No data available	Altered sleep time, change in righting reflex, dyspnea, & body temperature changes.
Fetal Bovine Serum	No data available	May be harmful if inhaled, swallowed, or absorbed through skin. May cause respiratory tract, skin, and eye irritation.	No data available	No data available
Gentamicin	No data available	Causes photosensitivity. Exposure to light can result in allergic reactions resulting in dermatological lesions, which can vary from sunburn like responses to edematous, vesiculated lesions, or bullae.	No data available	Liver irregularities based on human evidence.
HEPES Buffer Solution	No data available	May cause eye or skin irritation. May be harmful if inhaled or swallowed.	No data available	No data available
L-15 Medium	No data available	May be harmful if inhaled, swallowed, or absorbed through skin. May cause respiratory tract, skin, or eye irritation.	No data available	No data available.
L-Glutamine	No data available	No data available	No data available	No data available

Minimum Essential Medium	No data available	May cause eye or skin irritation. May be harmful if inhaled or swallowed.	No data available	No data available
Penicillin G potassium salt	Oral - rat	May cause allergic skin reaction. Genotoxicity in vitro histidine reversion (Ames) and rat unreported sperm. May be harmful if inhaled, swallowed, or absorbed through skin. May cause respiratory tract, skin, and eye irritation.	8,900 mg/kg (oral)	No data available
Streptomycin sulfate salt	Oral - rat	Prolonged or repeated exposure may cause allergic reaction in certain sensitive individuals. Suspected human reproductive toxicant.	430 mg/kg (oral)	Liver irregularities based on human evidence.
Sucrose	Oral - rat	May cause eye, skin, and respiratory tract irritation. May be harmful if in contact with the skin, inhaled, or swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting, & diarrhea.	29700mg/kg (oral)	No data available

**Carcinogenicity:** This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

### SECTION 12: ECOLOGICAL INFORMATION

Component	Aquatic/Terrestrial Toxicity	Organisms
Amphotericin B, D-Valine, Fetal Bovine Serum, Gentamicin, HEPEs Buffer Solution, L-15 Medium, L-Glutamine, Minimum Essential Medium, Penicillin G potassium salt, Sucrose	No data available	No data available
Cycloheximide	Toxic to aquatic life.	No data available
Streptomycin sulfate salt	Toxicity to fish, LC50 - >180 mg/l - 96 h Toxicity to daphnia & other aquatic invertebrates, EC 650 mg/l - 48 h	<i>Oncorhynchus mykiss</i> (rainbow trout) <i>Daphnia magna</i> (water flea)

**Ozone Layer Effect:** No data available

**Persistence & Degradability:** No data available

**Bioconcentration Factor:** No data available

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

**Wastewater Purification Effect:** No data available

**Bioaccumulation Potential:** No data available

**Mobility in Soil:** No data available

### SECTION 13: DISPOSAL CONSIDERATIONS

**Disposal Containers:** Use disposal containers according to local regulations.

**Disposal Methods:** Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dispose of contaminated packaging in the same manner as unused product. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

**Physical & Chemical Properties Affecting Disposal:**

**Sewage Disposal:** Do not let product enter drains. Discharge into the environment must be avoided.

**Special Precautions for Landfills or Incineration:** Mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

### SECTION 14: TRANSPORT INFORMATION

**UN Number & Shipping Name:** No data available

**Packing Group Number:** No data available

**Bulk Transportation & IBC Code:** No data available

**Transport Hazard Class:** No data available

**Environmental Hazards:** No data available

**Special Precautions:** No data available

### SECTION 15: REGULATORY INFORMATION

**OSHA:** Skin sensitizer, Target Organ Effect (kidney), Harmful by ingestion, Irritant

**Department of Transportation:** Not dangerous goods

**Environmental Protection Agency:** No data available

**Consumer Product Safety Commission:** No data available

**SARA 302 Compounds:** The following component is subject to the reporting requirements of SARA Title III, Section 302. Cycloheximide (CAS 66-81-9)

**SARA 313 Compounds:** This material does not contain any chemical components with known CAS number that exceed the threshold reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Compounds:** Acute Health Hazard, Chronic Health Hazard

State Right to Know Component (CAS #)	MA	PA	NJ	RI
Potassium [2S-(2 $\alpha$ ,5 $\alpha$ ,6 $\beta$ )]-3,3-dimethyl-7-oxo-6-(phenylacetamido)-4-thia-1-azabicyclo[3.2.0]heptane-2-carboxylate (CAS 113-98-4)	N/A	Yes	Yes	N/A
Water (CAS 7732-18-5)	N/A	Yes	Yes	N/A
L-Glutamine (CAS 56-85-9)	N/A	Yes	Yes	N/A
Fetal Bovine Serum (unlisted)	N/A	Yes	Yes	N/A
Amphotericin B (CAS 1397-89-3)	N/A	Yes	Yes	N/A
Sodium 3- $\alpha$ , 12- $\alpha$ -dihydroxy-5- $\beta$ -cholan-20-oate (CAS 302-95-4)	N/A	Yes	Yes	N/A
Disodium hydrogenorthophosphate (CAS 7558-79-4)	Yes	Yes	Yes	N/A
Streptomycin sulfate (CAS 3810-74-0)	N/A	Yes	Yes	N/A
Cycloheximide (CAS 66-81-9)	Yes	Yes	N/A	N/A
Gentamicin sulfate salt (CAS 1405-41-0)	N/A	Yes	Yes	N/A
D-Valine (CAS 640-68-6)	N/A	Yes	Yes	N/A
Sucrose (CAS 57-50-1)	Yes	Yes	N/A	Yes

**California Prop. 65 Components:** WARNING: This product contains chemicals known to the State of California to cause birth defects or other reproductive harm. Streptomycin sulfate (CAS 3810-74-0) & Cycloheximide (CAS 66-81-9).

### SECTION 16: OTHER INFORMATION

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the products with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the products. CellPro Labs shall not be held liable for any damage resulting from the handling of or from contact with the above products. See [www.cellprolabs.com](http://www.cellprolabs.com) for additional term and conditions of sale.