



# INOCLON

CULTIVATES YOUR IDEA

Cell Culture Media & Supplements



- Classical Culture Media
- Serum Free Culture Media
- Cell Culture Supplements
- IVF Media & Materials

# INOCLON

G. Innovative Biotech is a knowledge-based leading biotech company active in production and distribution of wide range of cell culture media and biotech preparations under INOCLON brand name. The company develops, manufactures and distributes high quality cell culture media, molecular reagents related to tissue and cell culture applications including basal salt solutions and buffers, sera, special media and flexible packaging systems. Biopharma production facilities and academic research centers are company's valuable customers and providing excellent after-sales services to the clients is the most important goal of the company. G. Innovative Biotech is also ready to produce custom-made formula to meet specific customer's need. All manufacturing processes are performed under cGMP regulations and company meet the standards of ISO 13485:2003 and 9001:2008.



شرکت نوآوری زیستی، گویا اولین و بزرگترین تولیدکننده محیط کشت در خاورمیانه، شرکتی است دانش بنیان و پیشرو در زیست-فناوری که در زمینه تولید و توزیع طیف گسترده ای از فرآورده های کشت سلولی با نام تجاری INOCLON فعالیت می کند و ارائه خدمات پس از فروش و مشتری مداری را در دستور کار خود قرار داده است. این شرکت با تولید و توزیع محیط های کشت سلولی با کیفیت بالا و معرف های بیولوژی مولکولی با کاربرد کشت سلولی و بافتی نظیر محلول های بافر نمکی، آنتی بیوتیک ها، سرم و محیط های خاص نقش مهمی را در پشتیبانی از تحقیقات علمی و صنعتی بیوتکنولوژی کشور بر عهده دارد. علاوه بر گستره محصولات قابل ارائه، شرکت آمادگی تولید و عرضه فرآورده های کشت سلولی بر اساس درخواست مشتری را نیز دارد. کلیه فرآیندهای تولید در شرکت نوآوری زیستی گویا بر اساس cGMP به انجام رسیده و مجموعه دارای استانداردهای ISO 13485:2003 و ISO 9001:2008 می باشد.

## ( Classical Cell Culture Media )

## محیط های کشت سلولی

اکثر محیط های کشت سلولی دارای نمک ها، آمینواسیدها، قندها، ویتامین ها و سایر مواد مغذی آلی هستند. این محیط ها به عنوان بستر اصلی رشد سلولی به شمار آمده که می توان به آن مکمل های گوناگون جهت رشد بهتر سلول ها اضافه نمود. هر نوع محیط کشت خاص برای طیفی از سلول ها و یا برای یک یا چند نوع سلول خاص کاربرد دارد که پیشنهاد می شود با توجه به نوع میکروارگانیسم یا سلول و شرایط آن محیط کشت مورد نظر انتخاب گردد.

## DMEM (Dulbecco's Modification of Eagle's Medium)

Many modifications of Eagle's Medium have been developed since the original formulation appeared in the literature. Among the most widely used of these modifications is Dulbecco's Modified Eagle's medium (DMEM). The original DMEM formula contains 1000 mg/L of glucose and was first reported for culturing embryonic mouse cells. A further alteration with 4500 mg/L glucose has proved to be optimal for cultivation of certain cell types.



No.	Product	Content	Cat. No	Size
1	DMEM (Low Glucose)	With 1000 mg/L D-glucose, L-glutamine, 110 mg/L sodium pyruvate and sodium bicarbonate	10-DM1-100	100 ml
			10-DM1-500	500 ml
2	DMEM (High Glucose)	With 4500 mg/L D-glucose, L-glutamine, 110 mg/L sodium pyruvate and sodium bicarbonate	10-DM2-100	100 ml
			10-DM2-500	500 ml
3	DMEM (High Glucose)	With 4500 mg/L D-glucose, L-glutamine, and sodium bicarbonate, without sodium pyruvate	10-DM3-100	100 ml
			10-DM3-500	500 ml
4	DMEM (W/O Phenol red)	With 4500 mg/L D-glucose and sodium bicarbonate, without L-glutamine and Phenol red	10-DM4-100	100 ml
			10-DM4-500	500 ml
5	DMEM Powder (Low Glucose)	With 1000 mg/L D-glucose, L-glutamine, 110 mg/L sodium pyruvate and without sodium bicarbonate	10-DMP1-1L	For 1L
			10-DMP1-10L	For 10L
			10-DMP1-50L	For 50L
6	DMEM Powder (High Glucose)	With 4500 mg/L D-glucose, L-glutamine, 110 mg/L sodium pyruvate and without sodium bicarbonate	10-DMP2-1L	For 1L
			10-DMP2-10L	For 10L
			10-DMP2-50L	For 50L

## Dulbecco's Modification of Eagle's Medium (DMEM/Ham's F12)

DMEM:F12 combines the richness of F12 with the higher component concentration of DMEM. This medium was originally formulated for neuroblastoma cells and MDCK cells. The mixture is extremely nutritious and supports growth of a wide variety of cells including certain epithelial, endothelial and granulosa cells.



No.	Product	Content	Cat. No	Size
1	DMEM/F12	With 15 mM HEPES buffer and L-glutamine and sodium bicarbonate	10-DF1-100	100 ml
			10-DF1-500	500 ml
2	DMEM/F12	With L-glutamine and sodium bicarbonate	10-DF2-100	100 ml
			10-DF2-500	500 ml
3	DMEM/F12	With sodium bicarbonate and without L-glutamine	10-DF3-100	100 ml
			10-DF3-500	500 ml
4	DMEM/F12 (W/O Phenol red)	With sodium bicarbonate, without L-glutamine and Phenol red	10-DF4-100	100 ml
			10-DF4-500	500 ml
5	DMEM/F12 Powder	With L-glutamine and without sodium bicarbonate	10-DFP2-1L	For 1L
			10-DFP2-10L	For 10L
			10-DFP2-50L	For 50L



## RPMI-1640

RPMI-1640 was developed by Moore et al. at Roswell Park Memorial Institute, hence the acronym RPMI. The formulation is based on the RPMI-1630 series of media utilizing a bicarbonate buffering system and alterations in the amounts of amino acids and vitamins. RPMI-1640 medium has been used for the culture of human normal and neoplastic leukocytes. RPMI-1640, when properly supplemented, has demonstrated wide applicability for supporting growth of many types of cultured cells, including fresh human lymphocytes.

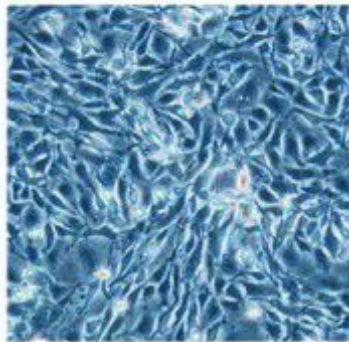


No.	Product	Content	Cat. No	Size
1	RPMI 1640	With 25 mM HEPES buffer, L-glutamine and sodium bicarbonate	10-RP1-100	100 ml
			10-RP1-500	500 ml
2	RPMI 1640	With L-glutamine and sodium bicarbonate	10-RP2-100	100 ml
			10-RP2-500	500 ml
			10-RPP1-1L	For 1L
3	RPMI 1640 Powder	With L-glutamine and without sodium bicarbonate	10-RPP1-10L	For 10L
			10-RPP1-50L	For 50L
			10-RPP2-1L	For 1L
4	RPMI 1640 Powder	With 25 mM HEPES buffer, L-glutamine and without sodium bicarbonate	10-RPP2-10L	For 10L
			10-RPP2-50L	For 50L



## Minimum Essential Medium (MEM)

Minimum Essential Medium (MEM), developed by Harry Eagle, is one of the most widely used of all synthetic cell culture media. Early attempts to cultivate normal mammalian fibroblasts and certain subtypes of HeLa cells revealed that they had specific nutritional requirements that could not be met by Eagle's Basal Medium (BME). Subsequent studies using these and other cells in culture indicated that additions to BME could be made to aid growth of a wider variety of fastidious cells. MEM which incorporates these modifications, includes higher concentrations of amino acids so that the medium more closely approximates the protein composition of mammalian cells. Optional supplementation of non-essential amino acids to the formulations that incorporate either Hanks' or Earle's salts has broadened the usefulness of this medium.



No.	Product	Content	Cat. No	Size
1	MEM Medium	With Earle's salts, L-glutamine, nonessential amino acids and sodium bicarbonate	10-ME1-100	100 ml
			10-ME1-500	500 ml
2	MEM Medium	With Earle's salts, L-glutamine and sodium bicarbonate	10-ME2-100	100 ml
			10-ME2-500	500 ml
3	MEM Medium	With Earle's salts and sodium bicarbonate, without L-glutamine	10-ME3-100	100 ml
			10-ME3-500	500 ml
4	α-MEM	With L-glutamine and sodium bicarbonate, without ribonucleosides and deoxyribonucleosides	10-ME6-100	100 ml
			10-ME6-500	500 ml
5	α-MEM (W/O Phenol red)	With Earle's salts and sodium bicarbonate, without L-glutamine, ribonucleosides, deoxyribonucleosides and Phenol red	10-ME7-100	100 ml
			10-ME7-500	500 ml
6	α-MEM Powder	With L-glutamine, without ribonucleosides and deoxyribonucleosides and sodium bicarbonate	10-MEP6-1L	For 1 L
			10-MEP6-10L	For 10L

## Other Classical Culture Media

### Ham's F12 Nutrient Mixtures

Ham's F-12 media were originally formulated for the serum-free culture of CHO cells and is based on Ham's F-10 medium with increased concentrations of choline, inositol, putrescine and several amino acids. This medium is also suitable for carcinoma cells, rat skeletal myoblasts, chinese hamster lung cells and rat, rabbit and chicken embryos. This formulation contains L-glutamine.

### Ham's F10 Nutrient Mixtures

Ham's F-10 is a classical media designed to support the growth of a variety of cell types, including HeLa, Chinese Hamster Ovary (CHO), primary cells from tissue explants and various types of human diploid cells. Serum supplementation may or may not be necessary depending on the type of cell being cultured.

### Iscove's Modified Dulbecco's Medium (IMDM)

This medium is a modification of Dulbecco's Modified Eagle's medium (DME) and contains selenium, additional amino acids and vitamins, sodium pyruvate, HEPES buffer and potassium nitrate instead of ferric nitrate.

### Opti-MEM

Reduced Serum Media is a modification of Eagle's Minimum Essential Media, buffered with HEPES and sodium bicarbonate and supplemented with hypoxanthine, thymidine, sodium pyruvate, L-glutamine, trace elements and growth factors.



No.	Product	Content	Cat. No	Size
1	Ham's F-12 Nutrient Mixture	With L-glutamine and sodium bicarbonate	10-FN1-100 10-FN1-500	100 ml 500 ml
2	Ham's F-10 Nutrient Mixture	With L-glutamine and sodium bicarbonate	10-FN2-100 10-FN2-500	100 ml 500 ml
3	IMDM Medium	With L-glutamine, 25 mM HEPES buffer and sodium bicarbonate	10-IM1-100 10-IM1-500	100 ml 500 ml
4	Opti-MEM	With HEPES buffer, hypoxanthine, thymidine, sodium pyruvate, L-glutamine, trace elements, growth factors, sodium bicarbonate and phenol red reduced to 1.1 mg/L	10-OM1-100 10-OM1-500	100 ml 500 ml

## (Serum Free Media)

## محیط های کشت بدون نیاز به سرم

محیط های کشت بدون نیاز به سرم، محیط هایی هستند که برای رشد انواع خاصی از سلول ها و یا برای کاربردهای خاص در غیاب حضور سرم استفاده می شوند. استفاده از سرم خونی در فرآیند تولید فرآوردهای دارویی با ممنوعیت یا محدودیت روبرو بوده و به همین منظور کاربرد این نوع از محیط های کشت همواره رو به افزایش است.

## CHOCLON™

CHOCLON™ Serum-free and Protein-free CHO Media were developed specifically to facilitate the production and downstream processing of recombinant proteins expressed in CHO cells. These protein free formulations support high-density cultures without the need for animal derived components. Very low levels of recombinant insulin facilitate both downstream purification and regulatory compliance.

## Advantages of using serum-free media:

- Increased definition.
- More consistent performance.
- Easier purification and downstream processing.
- Precise evaluations of cellular function.
- Increased growth and/or productivity.
- Better control(s) over physiological responsiveness.
- Enhanced detection of cellular mediators.



No.	Product	Content	Cat. No	Size
1	CHOCLON™	Serum-Free/Protein-free medium with L-glutamine and without Phenol red	10-CH1-100 10-CH1-500	100 ml 500 ml



## (Buffered Salt Solution)

## محلول های بافر نمکی

محلول های بافر نمکی، محلول هایی هستند که با غلظت های مشخص نمکی و pH فیزیولوژیک ساخته شده که به صورت تنها و یا با مخلوطی از سایر معرف ها برای شستشوی بافت ها و سلول ها به کار می روند. این محلول ها عمدتاً شامل سدیم، پتاسیم، کلسیم، منیزیم و کلراید هستند که برای سلول ها محیط آبی به همراه یون های غیر آبی را فراهم نموده و در عین حال pH فیزیولوژیک و فشار اسمزی را حفظ می نمایند.

## PBS & TBS

### Phosphate buffered saline (PBS)

Phosphate-buffered saline (abbreviated PBS) is a buffer solution commonly used in biological research. It is a water-based salt solution containing sodium hydrogen phosphate, sodium chloride and in some formulations, potassium chloride and potassium dihydrogen phosphate. The osmolality and ion concentrations of the solutions match those of the human body (isotonic). PBS has many uses because it is isotonic and non-toxic to most cells. These uses include substance dilution and cell container rinsing.

### Tris-buffered saline (TBS)

Tris-buffered saline (abbreviated TBS) is a buffer used in some biochemical techniques to maintain the pH within a relatively narrow range. Tris (with HCl) has a slightly alkaline buffering capacity in the 7–9.2 range. Tris has a pKa of 8.06 at 25 C. The pKa declines approximately 0.03 units per degree Celsius rise in temperature. This can lead to relatively dramatic pH shifts when there are shifts in solution temperature. TBS has many uses because it is isotonic and non-toxic. It can be used to dilute substances. Additives can be used to add function. TBS is often used in immuno-blotting for both membrane washing and antibody dilution.

No.	Product	Content	Cat. No	Size
1	PBS(1X)	Phosphate buffered saline, pH 7.4	11-PB1-100	100 ml
			11-PB1-500	500 ml
2	PBS(10X)	Phosphate buffered saline, pH 7.4	11-PB2-100	100 ml
			11-PB2-500	500 ml
3	TBS(1X)	Tris-buffered saline, pH 7.4	11-TB1-100	100 ml
			11-TB1-500	500 ml
4	TBS(10X)	Tris-buffered saline, pH 7.4	11-TB2-100	100 ml
			11-TB2-500	500 ml

## Hanks' Balanced Salt Solution (HBSS)

Hank's Balanced Salt Solution (HBSS) is a balanced salt solution to be used in a wide variety of tissue culture applications: to maintain a physiological pH for cells maintained in non-CO<sub>2</sub> conditions, diluting cells before counting, washing cells before dissociating and transporting cells or tissues. This salt solution formulated in 1940 by the microbiologist John H. Hanks. It provides a buffering system to maintain the physiological pH range and osmotic balance of the culture media and provides cells with a source of water and essential inorganic ions and a carbohydrate as an energy source.

No.	Product	Content	Cat. No.	Size
1	HBSS(Hanks)	without calcium and magnesium	11-HB1-100	100 ml
			11-HB1-500	500 ml
2	HBSS(Hanks)	without calcium, magnesium and phenol red	11-HB2-100	100 ml
			11-HB2-500	500 ml

### (Cell Culture supplements )

### مکمل های کشت سلولی

شرکت نوآوری زیستی گویا همچنین تأمین کننده تمامی مکمل ها و معرف هایی است که در طی فرآیند کشت سلولی مورد نیاز هستند. این مکمل ها و معرف ها برای رشد بهتر، سوخت و ساز و متابولیسم سلول ها، جلوگیری از آلودگی کشت سلول، جداسازی آنزیمی سلول های چسبنده و یا کاربردهای دیگر با توجه به شرایط آن ها مورد استفاده قرار می گیرند.

## Trypsin-EDTA

Trypsin-EDTA is used to enzymatically release adherent cells from tissue culture plates for passaging. 0.25% solution is recommended for the dissociation of adherent cells, cell aggregates and tissues into single cell suspensions. All trypsin solutions are prepared from porcine parvovirus tested and mycoplasma tested materials.

No.	Product	Content	Cat. No.	Size
1	Trypsin-EDTA (1X) 0.05%	0.5 g/L of trypsin, 0.2 g/L of EDTA, with phenol red	12-TR1-100	100 ml
2	Trypsin-EDTA (1X) 0.25%	2.5 g/L of trypsin, 0.38 g/L of EDTA, with phenol red	12-TR2-100	100 ml
3	Trypsin-EDTA (10X) 0.5%	5 g/L of trypsin, 2 g/L of EDTA, without phenol red.	12-TR3-100	100 ml
4	Trypsin-EDTA (10X) 2.5%	25 g/L of trypsin, 3.8 g/L of EDTA, without phenol red.	12-TR4-100	100 ml

## Amino acid and vitamin supplements

### L-Glutamine

L-glutamine is an essential amino acid and a key component of culture media, serving as a major energy source for propagating cells. It is very stable as a dry powder and as a frozen solution but degrades rapidly in liquid media or stock solution, producing toxic compound. Optimal cell performance usually requires supplementation of the media with L-glutamine prior to use. This formulation is prepared in 200 mM solution.

### GlutaClon™

L-alanyl-L-glutamine is a stabilized dipeptide form of L-glutamine which does not degrade in liquid media during storage or incubation, providing superior results in several applications. This product contains dipeptide L-alanyl-L-glutamine at 43.44 mg/mL, with 0.85% NaCl. This formulation is prepared in 200 mM solution.

### MEM Vitamins and Amino acids

The addition of MEM vitamins and MEM Amino acids to medium can improve growth and viability of propagating cells in culture while reducing the biosynthetic burden on these cells. This concentrated supplement allows for efficient addition to media with no risk of dilution of media components.



No.	Product	Content	Cat. No	Size
1	L-Glutamine	200 mM solution	12-LG1-100	100 ml
2	GlutaClon™ (L-Alanyl-Glutamine)	200 mM solution (with 8.5 g/L NaCl)	12-GC1-100	100 ml
3	MEM Amino Acids Solution(50X)	50X solution without L-glutamine	12-MA1-100	100 ml
4	MEM Non-Essential Amino Acids Solution(100X)	100X solution	12-MN1-100	100 ml
5	MEM Vitamins Solution(100X)	100X solution	12-MV1-100	100 ml

## Trypan Blue

Trypan Blue is the most common stain used in cell count and viability assays. Viable cells exclude the dye, while nonviable cells absorb the dye and appear blue. Cells should be in suspension as single cells in buffered saline before counting. Trypan blue can be used in assays providing total cell count, viable cell or nonviable cell count alone. This solution is provided at the common concentration of 0.4% (w/v).

## HEPES

HEPES (N-2-hydroxyethylpiperazine-N'-2-ethanesulphonic acid) provides an alternative to the use of bicarbonate for buffering because it does not require elevated levels of CO<sub>2</sub>. Unlike the low pKa of bicarbonate, HEPES has a pKa of 7.66 making it a much stronger buffer in the pH 7.2-7.6 range than bicarbonate buffer. Potential disadvantages of HEPES include toxicity over 100 mM and lack of nutritive value to the cell.

## Dimethyl Sulfoxide (DMSO)

Dimethyl Sulfoxide (DMSO) is commonly used in cell cryopreservation, along with glycerol, to prevent damage to the cell membrane during freezing.

## Pen-Strep Solution

This product is a mix of the antibiotics Penicillin (10,000 IU) and Streptomycin (10,000 µg/ml) in a 100-fold working concentration. Penicillin (Penicillin G) works by inhibiting peptidoglycan synthesis, while Streptomycin inhibits protein synthesis. Penicillin-Streptomycin is effective against Gram-negative and Gram-positive bacteria.



## Antibiotic-Antimycotic Solution

This is a combination of Penicillin, Streptomycin and Amphotericin B formulated to contain 10,000 IU penicillin G, 10,000 µg/ml streptomycin sulfate and 25 µg/ml amphotericin B. Penicillin acts by inhibiting bacterial cell-wall synthesis, Streptomycin inhibits prokaryote protein synthesis and Amphotericin B interferes with fungal membrane permeability. This combination is effective against Gram-negative and Gram-positive bacteria, fungi and yeasts.

No.	Product	Content	Cat. No	Size
1	Trypan Blue	0.4% (w/v) in normal saline (8.1 g/L NaCl with 0.6 g/L K <sub>2</sub> HPO <sub>4</sub> )	12-TB1-100	100 ml
2	HEPES	1 M solution (238.3 mg/mL)	12-HE1-100	100 ml
3	Dimethyl Sulfoxide (DMSO)	Sterile- filtered cell culture tested	12-DS1-5	5 ml
4	Pen-Strep Solution (50x)	5,000 I.U. Penicillin (per mL) 5,000 µg/mL Streptomycin	12-PS1-100	100 ml
5	Pen-Strep Solution (100x)	10,000 I.U. Penicillin (per mL) 10,000 µg/mL Streptomycin	12-PS2-100	100 ml
6	Antibiotic-Antimycotic Solution	10,000 I.U. Penicillin (per mL) (10,000 µg/mL Streptomycin 25 µg/mL Amphotericin with 8.5 g/L NaCl)	12-PS3-100	100 ml

## High Quality Water

INOCLON produces Water for Injection (WFI) quality water, meeting the United States Pharmacopeia (USP) testing requirements for WFI.

WFI-Quality Water Applications: Raw material for manufacturing, cell culture, process validation, device processing, purification buffers or chromatography buffers. Molecular grade water is ideal for the preparation of reagents, rinsing glassware and plasticware and other molecular biology applications. Perfect for critical molecular biology processes where low endotoxin and the absence of nuclease and protease activity is a must, including: buffer preparation, DNA/RNA purification, DNA sequencing and libraries, recombinant DNA, cloning, gene mapping, Northern blots, Southern blots, and Western Blots, etc.

No.	Product	Content	Cat. No	Size
1	WFI DD H <sub>2</sub> O	Sterile WFI quality distilled deionized water	13-DD1-100	100 ml
			13-DD1-500	500 ml
2	WFI DD H <sub>2</sub> O	Non-Sterile WFI quality distilled deionized water	13-DD2-20L	20L
			13-DD2-4L	4L

## Assisted reproductive technology materials

## محیط های کشت و مواد ART

شرکت نوآوری زیستی گویا با هدف تأمین نیازهای بخش درمان ناباروری توانسته است با کمک و همکاری مراکز درمان ناباروری معتبر در زمینه تولید محصولات ART و درمان ناباروری نیز فعالیت های خود را آغاز نماید. با توجه به گستردگی محصولات این حوزه، شرکت نوآوری زیستی گویا با فعالیت های مستمر در بخش تحقیق و توسعه در تلاش است تا به تدریج محصولات خود را در این بخش افزایش دهد.

### Sperm washing and preparation medium

#### VitaSperm™

VitaSperm™ is a three-in-one product. It is optimized for washing the sperm pellet recovered after density gradient preparation, for use in swim-up procedures for extending the sperm prior to Intra Uterine Insemination (IUI) and as a maintenance medium.

VitaSperm™ is an ionically balanced formulation to avoid premature sperm hyperactivation. Sudden pH and osmolarity changes during the movement of sperm from the semen sample to the fertilization medium are minimized. Avoiding premature hyperactivation conserves energy resources and improves fertilization potential.

VitaSperm™ is a HEPES-buffered salt solution which has been formulated specifically to resuspend sperm for intra uterine insemination. The ionic balance in VitaSperm has been designed to ideally meet the requirements of the sperm, while avoiding premature hyperactivation. Sperm survival and fertilizing capacity and therefore also pregnancy rates, can be improved by avoiding media which cause premature hyperactivation.



No.	Product	Content	Cat. No	Size
1	VitaSperm™	Sperm washing medium with L-Alanyl-L-glutamin and HEPES	14-VS1-100	100 ml
			14-VS1-500	500 ml
2	VitaSperm™	Sperm washing medium with L-Alanyl-L-glutamin and without HEPES	14-VS2-100	100 ml
			14-VS2-500	500 ml

## (Custom production)

## تولید بر اساس سفارش

شرکت نوآوری زیستی گویا این افتخار را دارد که به عنوان اولین و بزرگترین تولید کننده محیط کشت و محصولات کشت سلولی به صورت صنعتی در خاورمیانه، تأمین کننده هر نوع نیاز مربوط به این بخش برای مصارف تحقیقاتی و صنعتی باشد.

G.Innovative Biotech Co. has the capability to provide the same sterility assurance levels and quality you have come to expect from all INOCLON products. The fully trained biopharmaceutical staff has proficiency in customizing and producing tailored media and reagents for today's research and biopharmaceutical professionals. We recognize the ever expanding need for customer specific cGMP solutions and offers a full range of capabilities to meet your custom formulation, packaging and regulatory needs.





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