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## Product Profile

Product Name:	DCCM-2 without L-Glutamine	
Product Catalog Number	05-015-1	
Unit Size Availability:	(A)500ml;(B)100ml	
Formulation:	Red-Colored Solution	
Optimal Storage Conditions:	2-8°C	
Stability: (Under Specified Handling &	Please Refer to the Product Label	
Storage)		

Important Note! Please read the <u>MSDS</u> and <u>Product Profile</u> carefully in their entirety <u>before</u> using this material for possible safety precautions and potential hazards.

#### Product Description

DCCM-2 without L-Glutamine is a serum-free medium designed and modified with respect to its protein content. The outstanding advantage being its excellent support especially for Hybridoma Cell Growth and Monoclonal Antibody Production (MAbP) even when inoculated at lower cell concentrations. It has also been successfully utilized in the culture of human lymphocytes (i.e. including stimulated or transformed cells) as well as in the production of viruses. DCCM-2 also contains Esentially Fatty Acid-Free Bovine Serum Albumin (BSA), specifically designed for binding and transport studies. BSA is a large globular protein with a superior essential amino profile that provides bulk protein, helps maintain osmotic pressure and is a carrier for such nutrients as lipids. DCCM-2 with a lower protein content than its sister product DCCM-1, represents a compromise between cell growth promotion and Monoclonal Antibody Production (MAbP). It also simplifies the purification process.

Replacing serum necessitates taking into consideration all those possible factors that may affect proliferation of a particular cell type as all cell types have their own individual niche requirements. DCCM-2 with its relatively lower protein content typically represents the necessary compromise between promoting cell growth and Monoclonal Antibody Production (MAbP). Often, the lower protein content in highly-defined cultures offers greater potential for specific cell growth while maintaining nearly equivalent product titers. And the absence of exotic growth factors make this medium coincide to fit your requirements and at the same time being cost-efficient. It only requires the addition of L-Glutamine (a required essential amino acid in practically all cell culture media formulations) and antibiotics that are added to eliminate microbial contaminants but at lesser concentrations than in serum-supplemented media.

This serum-free (SF) medium also contains constituents that include a typical and wide variety of, among others:

- Inorganic Salts
- Vitamins
- Amino Acids
- Glucose
- Bovine Serum Albumin (Fatty-Acid-Free)<sup>1</sup>
- Human Transferrin<sup>2</sup>
- Insulin, Human Recombinant
- Phenol Red

It does not contain L-Glutamine.

### Some Predominant Characteristics of DCCM-2 include:

- § Ready-To-Use Formulation
- § Serum-Free but contains Proteins
- § Eliminates Serum-Screening Down-Time
- § More Precise Evaluation of Cell Function
- § Improves Cell Adaptation Time
- **§** Promotes Cell Performance and Productivity
- **§** More Uniform & Consistent Media Performance
- § Easier Product Purification & Downstream Processing
- § Sterile-Filtered(0.1µ) and Cell-Culture and Endotoxin-Tested

Storage & Handling Precautions and Disclaimer:

For in vitro diagnostic use only.

The product should be stored at 2-8°C. The product should not be left in the light for prolonged periods as it is light-sensitive. When stored in the dark under ideal conditions, the product is stable until the expiry date. As with any other liquid media formulations, <u>deterioration of liquid</u> <u>media</u> may be recognized by any of the following characteristics, among others including: (a). color change, (b). presence of clumping/flocculent debris/ granulation/ particulates\ precipitates or sediments (c). Insolubility,(d). And/or decrease in expected performance parameters. Any material described above should not be used and therefore discarded.

Biological Industries, Kibbutz Beit Haemek 25115 Israel Telephone: 972-4-9960-595 Fax: 972-4-9968-896 Web Site: www.bioind.com

E-Mail: info@bioind.com

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# Instructions/Procedure

- Take a bottle from the proper storage conditions between 2-8°C and read the label. Allow to warm to room temperature prior to use. 1)
- 2)
- 3)
- 4) 5)
- Ensure that the cap of the bottle is tight. Gently swirl the solution in the bottle. Wipe the outside of the bottle with a disinfectant solution such as 70% ethanol. Using aseptic/sterile technique under a laminar-flow culture hood, work according to established protocols. 6)

### Quality Control

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Test	Specification	
Cell-Culture:	Test and Record	
Cell Line:	Hybridoma Cells	
Endotoxins:	Test and Record	
Osmolality:	300-328 mOsm/kg	
pH :	7.1-7.5	
Sterility:	Sterile	

### Auxiliarv Products

Auxiliary Products		
Product Name	Catalog Number	Storage Temperature
L-Glutamine Solution	03-020-1	-20°C
Alanyl-Glutamine Solution	03-022-1	-20°C
DCCM-1 without L-Glutamine	05-010-1	2-8°C
DCCM-1 10X Conc., without L-Glutamine, without Sodium	05-010-5	2-8°C
Bicarbonate		
DCCM-2 without L-Glutamine	05-015-1	2-8°C
DCCM-2 10X Conc., without L-Glutamine, without Sodium	05-015-5	2-8°C
Bicarbonate		
Low Protein Medium BSA-Free(LPM) without L-Glutamine	05-040-1	2-8°C
Low Protein Medium BSA-Free(LPM) 10X Conc., without L-	05-040-5	2-8°C
Glutamine, without Sodium Bicarbonate		
BIOINSECT-1, with Glutamine	05-050-1	2-8°C
BIO-MPM-1, Multi-Purpose SFM, without L-Gltamine	05-060-1	2-8°C
BIOCHO-1 Serum-Free Medium Base without L-Glutamine	05-061-1	2-8°C
BIOCHO-2 Serum-Free Medium Base without L-Glutamine	05-062-1	2-8°C
Serum-Free Cell Freezing Medium	05-065-1	2-8°C
NutriVero VPi <sup>™</sup> AnimalComponent-Free Medium for the Monolayer	05-066-1	2-8°C
Culture of Vero Cells(NutriVero VP1,ACF SFM)		
NutriVero VP2 <sup>™</sup> AnimalComponent-Free Medium for the	05-067-1	2-8°C
Microcarrier Suspension Culture of Vero Cells(NutriVero VP1, ACF	V	
SFM)		
Nutristem ™hESC Xeno-Free Serum-Free Medium for Human	05-100-1	2-8°C
Embryonic Stem Cells with HSA		
AF Nutristem ™hESC Xeno-Free Serum-Free Medium for Human	05-102-1	2-8°C
Embryonic Stem Cells without HSA		
Mesenchymal Stem Cell Growth Medium(Ready-To-Use)	05-300-1	Please See Product labels
Mesenchymal Stem Cell Adipogenic Differentiation Medium	05-301-1	Please See Product labels
(Ready-To-Use)		
Mesenchymal Stem Cell Chondrogenic Differentiation Medium	05-302-1	Please See Product labels
(Ready-To-Use)		
Mesenchymal Stem Cell Osteogenic Differentiation Medium(Ready-	05-303-1	Please See Product labels
To-Use)		
BIOGRO-1 Serum-Free Medium Supplement 50X Conc.	05-600-1	-20°C
BIOGRO-2 Serum-Free Medium Supplement 50X Conc.	05-610-1	-20°C
BIOGRO-CHO Serum-Free Medium Supplement 100X Conc.	05-620-1	-20°C
Human Serum Albumin(HSA) Solution, 10%), Optimized for Human	05-720-1	-20°C
Embryonic Stem Cells(hESC)		

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References:

1) Bovine Serum Albumin Essentially Fatty-Acid Free (96% Agarose Gel Electrophoresis) lyophilized powder has been tested by the (Indirect Fluorescent Antibody (IFA) Method for Vesicular Stomatitis Virus (VSV) and Bluetongue(BT) Viruses. These viruses were not detected.

2) Human Transferrin, Fe-Free is manufactured under GMP conditions from Human Blood Plasma sub Fraction IV-1. It is important to emphasize that it is "For Research, Laboratory or Further Manufacturing Purposes Only." It is not intended For Human Use. The production process included heat treatment at 60°C for 10 Hours. It is a USA-sourced and approved product and plasma donors undergo a rigorous selection process as per USDA requirements.

In addition, source material plasma units have been tested as per US FDA-approved or accepted testing for the presence of:

- Anti (Human Immunodeficiency Virus) HIV-1/2
- Anti HIV
- HBsAg
- HCV, HBV, HAV, HIV-1, and Parvovirus B-19 by NAT (Minipools of 16v Donations)
- Syphilis

In addition, the plasma pool is also tested for the presence of:

- Anti HIV-1/2
- Anti HIV
- HBsAg
- HCV by Nucleic Acid Testing(NAT)
- HIV-1 by NAT
- HBV by NAT
- HAV by NAT(In-Process Only)
- Parvovirus B-19 by NAT

3) Biological Industries (BI )Specifications

- 4) Darling, D.C. and Morgan S.J. Animal Cells: Culture and Media, John Wiley & Sons, New York, 1994
- 5) Serum-Free Medium Product Guide, Biological Industries



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