

# **® Exosome-Depleted UltraGRO™-PURE GI**For immune and cancer cell-derived EV production

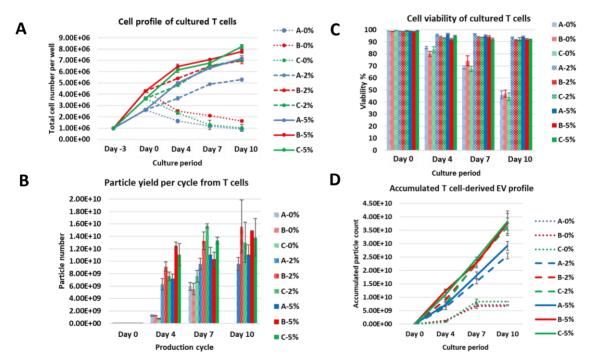
## Xeno-Free, Viral Inactivated, Exosome-Depleted for EV Production

AventaCell BioMedical Corp. has developed an exosome depletion process to remove human platelet lysate (hPL)-derived exosomes. Exosome-Depleted UltraGRO™-PURE GI (**ED UG-P GI**), the very first hPL-based supplement for EV collection. It is not able to support human MSCs but also immune cells and cancer cell lines to secret abundant extracellular vesicles (EVs). Moreover, gamma irradiation processing of the product is used as a pathogen reduction treatment (PRT) for viral inactivation, to comply with regulatory guidance for clinical research and development.

## Benefits of Exosome-Depleted UltraGRO™-PURE GI

- Xeno-free with >95% nanoparticle removal from the hPL supplement
- · Minimal hPL nanoparticle contamination
- Target cells cultured with the depleted supplement remain highly viable for sustain EV secretion throughout the culture period
- GMP Exosome-Depleted UltraGRO<sup>™</sup>-PURE GI to produce clinical grade cell-derived EVs
- Gamma irradiation processing is accepted by regulatory agencies as a validated PRT

## Excellent in supporting PBMC-derived T cells for long term EV production!



Applied with 2% ED UG-P GI for the comparable EV harvest outcome to the 5% on human T cells!

Fold change	Day 4	Day 7	Day 10				
2% vs. 0%	7.29	2.77	4.50				
5% vs. 0%	9.86	2.94	4.73				
Ave. of 3 donors a	. of 3 donors accumulated EVs						

Fig.1: PBMC-derived T from 3 donors were seeded at a cell density of 1x10<sup>6</sup> cell/ml in a 12-well culture plate. After 3 days, culture medium was replaced with ED UG-P GI supplemented RPMI-1640 medium at 0%, 2%, and 5%. Medium refreshed every 3-4 days. (A) Cell growth, (B) viability, (C) EV yield, and (D) EV accumulated profile were able to be supported and extended with the use of ED UG-P GI.



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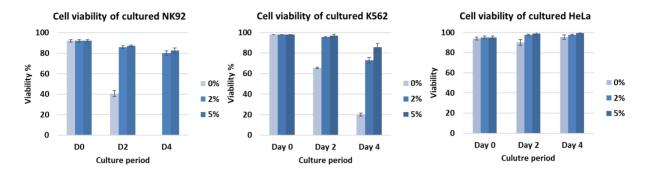
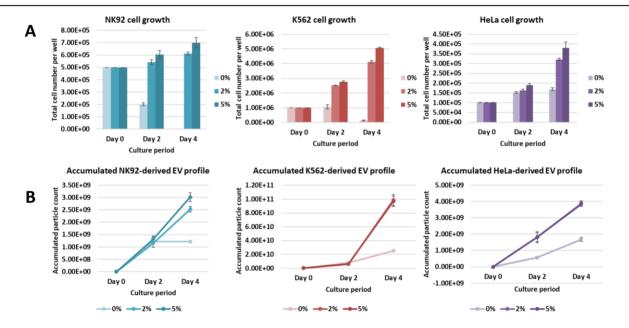


Fig.2: Suspension natural killer cell line NK92, human erythroleukemic cell line K562, and adherent human cervical cancer cell line HeLa cells can be cultured with the ED UG-P GI starting at a minimum concentration of 2%.



## 2% ED UG-P GI presents comparable performance to the 5% usage!

	NK92 a	ccu. EVs	K562 ac	cu. EVs	неца ас	cu. EVs	
Fold change	Day 2	Day4	Day 2	Day4	Day 2	Day4	
2% vs. 0%	0.95	2.08	0.77	3.89	3.22	2.28	-
5% vs. 0%	1.09	2.49	0.82	3.82	3.20	2.31	

Fig.3: In the presence of ED UG-P GI, it could support NK92, K562, and HeLa cells on continuous (A) cell growth, and each (B) EV accumulated secretion profile was significantly enhanced with the 2% or 5% supplemented ED UG-P GI.

## Billions of cell-derived EVs can be easily acquired Ordering today to start your exosome production!



## **Ordering Information**

Product Number	Product	Bottle Size (mL)
HPCHEFRLI05	Eveneme Depleted	50
HPCHEFRLI10	Exosome-Depleted UltraGRO™-PURE GI	100
HPCHEFRLI50	OlliaGRO FORE GI	500
HPCHEFGLI05	Exosome-Depleted	50
HPCHEFGLI10	UltraGRO™-PÜRE GI	100
HPCHEFGLI50	(GMP grade)	500



## **Distributed by:**

CliniSciences Group

## CliniSciences Group

#### Austria

Company: CliniSciences GmbH Address: Sternwartestrasse 76, A-1180

Wien - Austria Telephone: +43 720 115 580 Fax: +43 720 115 577

Email: oesterreich@clinisciences.com Web: https://www.clinisciences.com



Email: suomi@clinisciences.com

## Finland

Company: CliniSciences ApS Address: Oesterbrogade 226, st. 1, Copenhagen, 2100 - Denmark Telephone: +45 89 888 349 Fax: +45 89 884 064

## Web: https://www.clinisciences.com

#### Iceland

Company: CliniSciences ApS Address: Oesterbrogade 226, st. 1, Copenhagen, 2100 - Denmark Telephone: +45 89 888 349 Fax: +45 89 884 064

Email: island@clinisciences.com Web: https://www.clinisciences.com

## Netherlands

Company: CliniSciences B.V. Address: Kraijenhoffstraat 137A 1018RG Amsterdam, Netherlands Telephone: +31 85 2082 351 Fax: +31 85 2082 353

Email: nederland@clinisciences.com Web: https://www.clinisciences.com

## **Portugal**

Company: Quimigen Unipessoal LDA Address: Rua Almada Negreiros, Lote 5, Loja 14, 2615-275 Alverca Do Ribateio - Portugal

Telephone: +351 30 8808 050 Fax: +351 30 8808 052

Email: info@quimigen.com Web: https://www.quimigen.pt

## Switzerland

Company: CliniSciences Limited Address: Marktgasse 18 8302 Kloten -

Switzerland

Telephone: +41 (044) 805 76 81 Fax: +41 (044) 805 76 75

Email: switzerland@clinisciences.com Web: https://www.clinisciences.com

## Belgium

Company: CliniSciences S.R.L Address: Avenue Stalingrad 52, 1000 Brussels - Belgium

Telephone: +32 2 31 50 800 Fax: +32 2 31 50 801

Email: belgium@clinisciences.com Web: https://www.clinisciences.com

## France

Company: CliniSciences S.A.S Address: 74 Rue des Suisses, 92000

Nanterre- France

Telephone: +33 9 77 40 09 09 Fax: +33 9 77 40 10 11 Email: info@clinisciences.com Web: https://www.clinisciences.com

### Ireland

Company: CliniSciences Limited Address: Ground Floor, 71 lower Baggot street

Dublin D02 P593 - Ireland Telephone: +353 1 6971 146 Fax: +353 1 6971 147

Email: ireland@clinisciences.com Web: https://www.clinisciences.com

## Norway

Company: CliniSciences ApS Address: Oesterbrogade 226, st. 1, Copenhagen, 2100 - Denmark Telephone: +45 89 888 349 Fax: +45 89 884 064

Email: norge@clinisciences.com

Web: https://www.clinisciences.com

## Spain

Company: CliniSciences Lab Solutions Address: C/ Hermanos del Moral 13 (Bajo E), 28019, Madrid - Spain Telephone: +34 91 269 40 65 Fax: +34 91 269 40 74

Email: espana@clinisciences.com Web: https://www.clinisciences.com

Company: CliniSciences Limited Address: 11 Progress Business center, Whittle Parkway, SL1 6DQ Slough- United Kingdom

Telephone: +44 (0)1753 866 511 or +44 (0) 330 684 0982 Fax: +44 (0)1753 208 899 Email: uk@clinisciences.com IWeb: https://www.clinisciences.com

### Denmark

Company: CliniSciences ApS Address: Oesterbrogade 226, st. 1, Copenhagen, 2100 - Denmark Telephone: +45 89 888 349 Fax: +45 89 884 064

Email: danmark@clinisciences.com Web: https://www.clinisciences.com

## Germany

Company: Biotrend Chemikalien GmbH Address: Wilhelm-Mauser-Str. 41-43,

50827 Köln - Germany Telephone: +49 221 9498 320 Fax: +49 221 9498 325 Email: info@biotrend.com Web: https://www.biotrend.com

## Italy

Company: CliniSciences S.r.I Address: Via Maremmana inferiore 378 Roma 00012 Guidonia Montecelio - Italy

Telephone: +39 06 94 80 56 71 Fax: +39 06 94 80 00 21 Email: italia@clinisciences.com Web: https://www.clinisciences.com

## Poland

Company: CliniSciences sp.Z.o.o. Address: ul. Rotmistrza Witolda Pileckiego 67

lok. 200 - 02-781 Warszawa -Poland Telephone: +48 22 307 0535 Fax: +48 22 307 0532

Email: polska@clinisciences.com Web: https://www.clinisciences.com

## Sweden

Company: CliniSciences ApS Address: Oesterbrogade 226, st. 1, Copenhagen, 2100 - Denmark Telephone: +45 89 888 349 Fax: +45 89 884 064

Email: sverige@clinisciences.com Web: https://www.clinisciences.com

Company: Biotrend Chemicals LLC Address: c/o Carr Riggs Ingram, 500 Grand Boulevard, Suite 210 Miramar

Beach, FL 32550- USA Telephone: +1 850 650 7790 Fax: +1 850 650 4383

Email: info@biotrend-usa.com Web: https://www.biotrend-usa.com









