

UltraGRO™-PURE GI

Gamma Irradiated hPL for Immune Cell Culture

Xeno-free and Viral Inactivated for Therapeutic T cell Activation

AventaCell BioMedical has adopted a state-of-the-art gamma irradiation process, as our pathogen reduction treatment (PRT), for viral inactivation to create the UltraGRO™-PURE GI ("UG-P GI") product. The xeno-free fibrinogen-depleted human platelet lysate, **UG-P GI** offers minimized pathogen contamination risk while preserving potent cell culture performance with human immune cells and other applicable cell types for clinical applications.

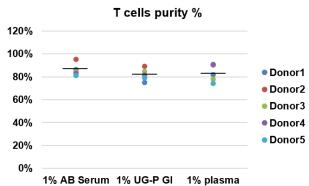
T cell expansion fold T cell expansion fold T cell expansion fold Donor1 Donor2 Donor3 Donor4 Donor5

1% plasma

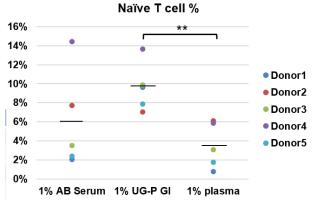
1% AB Serum 1% UG-P GI

Benefits of UltraGRO™-PURE GI

- US FDA FMD# 34284
- JAPAN PMDA Certificate
- Ph. Eur. General Chapter 5.2.12.4 Compliance
- · Xeno-free serum substitute
- Abundant natural growth factors and proteins
- Gamma irradiation PRT accepted by all major regulatory agencies
- GI safeguard of 99.99%+ viral clearance
- Viral inactivated products w/o loss of potency
- · Ideal for producing clinical grade immune cells



Greater expansion fold with higher Naïve and Central memory T cell population



25%	***	
20%	***	
15%	•	• Donorí
10%	•	• Donor3
		Donor4Donor5
5%		
0%	1% AB Serum 1% UG-P GI 1% pla	sma

Central memory T cell %

Ave (n = 5)	1% AB serum	1% UG-P GI	1% plasma
Expansion	1321 folds	2610 folds	1708 folds
T cell %	86	82	83
Naïve T %	6.0	9.6	2.5
CM T %	5.0	15.5	6

Fig 1. PBMCs were collected from 5 healthy donors, and T cells were activated by applying a commercial kit from supplier A, followed by the manufacturer's protocol to compare the induction performance with AB serum, UG-P GI, and auto-plasma. The results showed greater T cells with higher population of Naïve and central memory T cells could be obtained by introducing UG-P GI.



Manufacturing Site: 8727 S 212th Street, Kent, WA 98031, USA

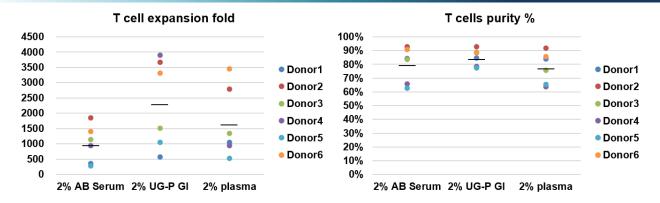
Website: www.atcbiomed.com
Contact: sales@atcbiomed.com



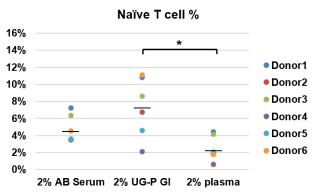


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Greater expansion fold with higher Naïve and Central memory T cell population



	Cen	tral memory	T cell %	
60%		,	+	
50%			1	
				Donor1
40%				Donor2
30%				Donor3
	8			Donor4
20%	•	•	8	Donor5
10%	•			Donor6
0%	•	•		- Bollolo
0%	2%AB Serum	2% UG-P GI	2%plasma	

Ave (n = 6)	2% AB serum	2% UG-P GI	2% plasma
Expansion	998 folds	2336 folds	1527 folds
T cell %	80	85	78
Naïve T %	4.8	7.4	2.5
CM T %	14.4	27.8	8.6

Fig 2. PBMCs were collected from 6 healthy donors, and T cells were activated by applying a commercial kit from supplier B, followed by the manufacturer's protocol to compare the induction performance with AB serum, UG-P GI, and auto-plasma. The results showed greater T cells with higher population of Naïve and central memory T cells could be obtained by introducing UG-P GI.



Greater Naïve T and central memory T cells were induced



Favorable for CAR-T cell production and immunotherapy

Ordering Information

Product Number	Product	Bottle Size (mL)
HPCHXCGLI05		50
HPCHXCGLI10	UltraGRO™-PURE GI GMP	100
HPCHXCGLI50		500



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