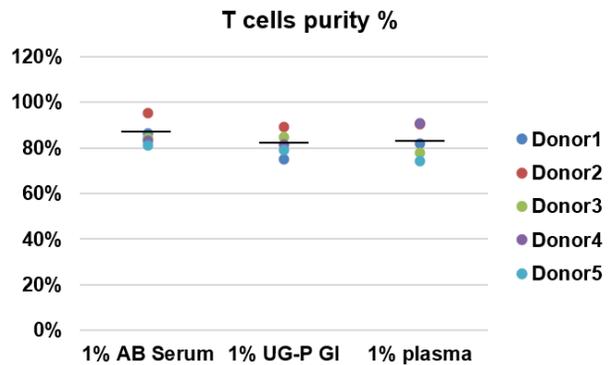
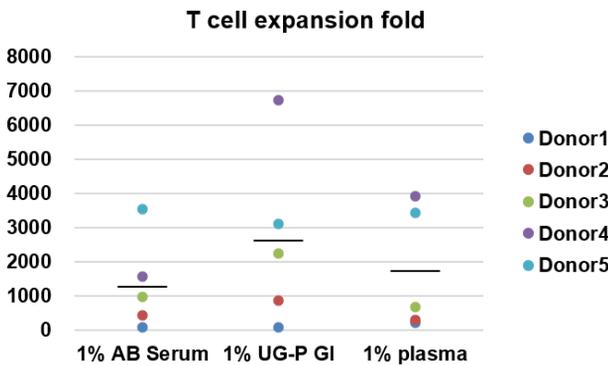


## Xeno-free and Viral Inactivated for Therapeutic T cell Activation

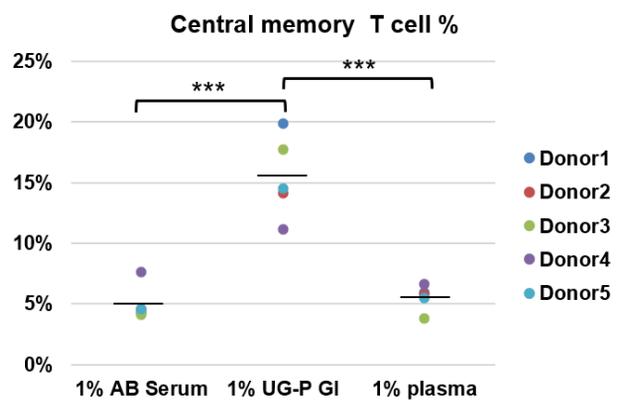
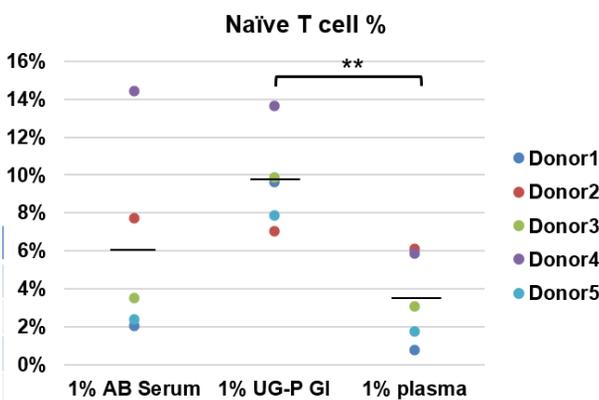
AventaCell BioMedical has adopted a state-of-the-art gamma irradiation process, as our pathogen reduction treatment (PRT), for viral inactivation to create the UltraGRO™-PURE GI (“UG-P GI”) product. The xeno-free fibrinogen-depleted human platelet lysate, **UG-P GI** offers minimized pathogen contamination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

### 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



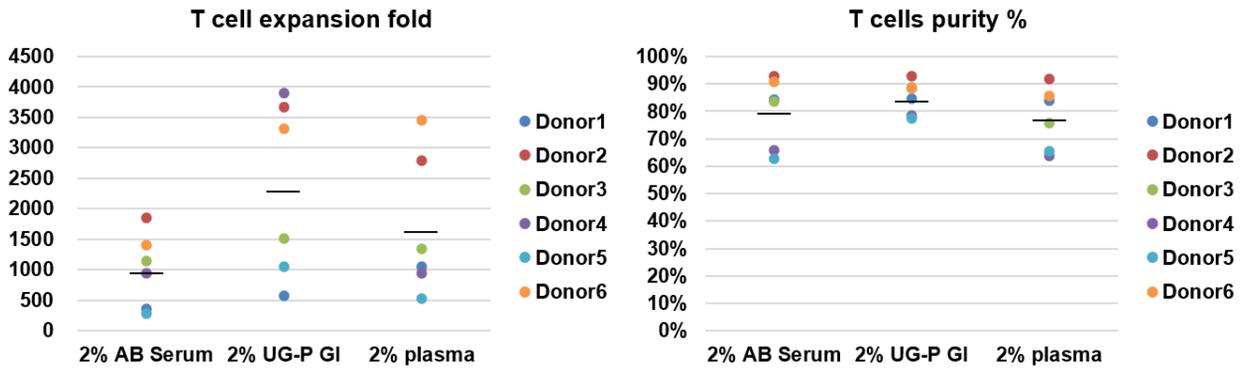
### Greater expansion fold with higher Naïve and Central memory T cell population



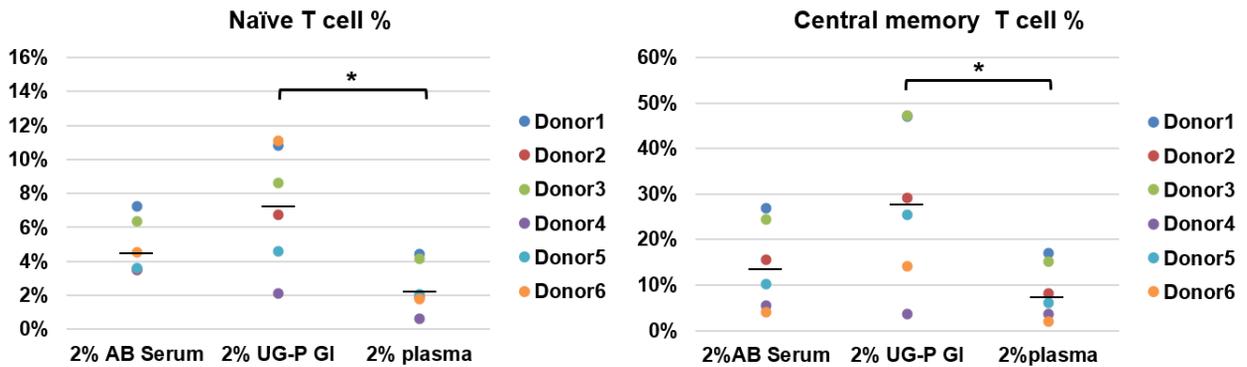
Ave (n = 5)	1% AB serum	1% UG-P GI	1% plasma
Expansion	1321 folds	<b>2610 folds</b>	1708 folds
T cell %	86	82	83
Naïve T %	6.0	<b>9.6</b>	2.5
CM T %	5.0	<b>15.5</b>	6

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.





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



Ave (n = 6)	2% AB serum	2% UG-P GI	2% plasma
Expansion	998 folds	<b>2336 folds</b>	1527 folds
T cell %	80	85	78
Naïve T %	4.8	<b>7.4</b>	2.5
CM T %	14.4	<b>27.8</b>	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	UltraGRO™-PURE GI GMP	50
HPCHXCGLI10		100
HPCHXCGLI50		500

