

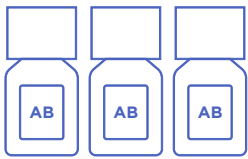
Cell Therapy: GMP Cell Culture Supplements

BioSupplies

Biological material solutions

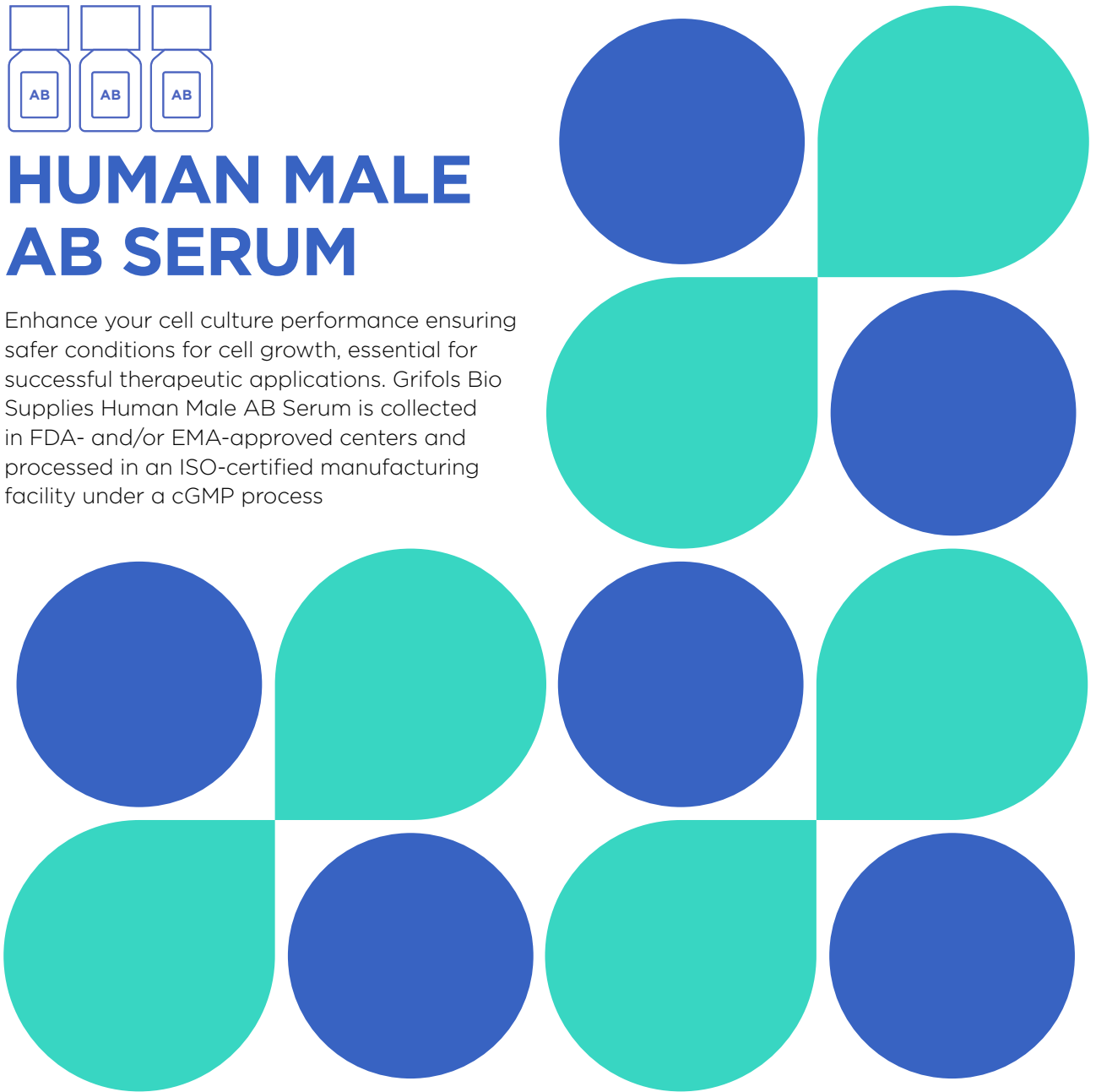
Cell Therapy

Male AB Serum



HUMAN MALE AB SERUM

Enhance your cell culture performance ensuring safer conditions for cell growth, essential for successful therapeutic applications. Grifols Bio Supplies Human Male AB Serum is collected in FDA- and/or EMA-approved centers and processed in an ISO-certified manufacturing facility under a cGMP process



GRIFOLS

Why Choose Male AB Serum?

Enhanced growth, safety, and product consistency with global regulatory support

Male AB human serum (HS) is a blood-derived material collected from an individual with an AB blood type. It serves as a valuable supplement in cell culture media for various applications, providing essential nutrients and growth factors to cells. AB serum lacks antibodies against the A and B blood type antigens, preventing reactions with cultured cells. Hence, it is highly recommended for use in biomedical applications.

Bio Supplies' Male AB HS is specifically collected from male donors to eliminate the presence of Rhesus factor antibodies, ensuring the safety of the final product.

Male AB HS and OTC serum (formerly Access Biologicals' products) are collected at FDA licensed and/or EMA-approved centers within the US. They are manufactured following a cGMP process under a strict quality assurance system to enhance product safety.



ENHANCED GROWTH

Male AB Serum is a source of nutrients to support a robust cell proliferation



ENHANCED SAFETY

- Each individual unit is tested and found negative for all required viral markers via FDA-approved methods
- Mycoplasma, endotoxin, and other additional testing such as hemoglobin, osmolality or USP Sterility are performed
- Heat inactivation and gamma irradiation options available



ENHANCED PRODUCT CONSISTENCY

Large lot size production which helps to have a better reproducibility



ENHANCED GLOBAL REGULATORY SUPPORT

Gamma irradiation viral clearance study to support regulatory submissions and registrations

Plasma sourced from dual FDA- and EMA-approved collection centers

Committed to meeting customer needs

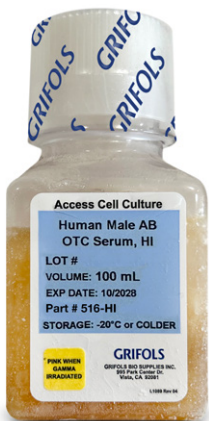
WE OFFER VARIOUS SERVICES AS EVERY CELL CULTURE PROCESS IS UNIQUE

PARAMETER SPECIFICATIONS: FIBRINOGEN, GLUCOSE, PH, TOTAL PROTEINS

ADDITIONAL VIRAL TESTING

CUSTOM DONOR POOLS

GRIFOLS BIO SUPPLIES OFFER DIFFERENT XENO-FREE PRODUCT OPTIONS



MALE AB OFF-THE-CLOT (OTC) SERUM

Collected from the whole blood donation of healthy male AB donors. It has a higher protein content than human male AB serum and contains no anticoagulant



MALE AB SERUM

Collected from plasma donation (plasmapheresis) of healthy male AB donors and manufactured with human thrombin following a cGMP process

CELL THERAPY SOLUTIONS

Grifols Bio Supplies offers several human-derived raw materials for cell therapy manufacture



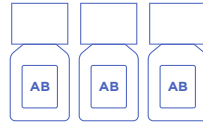
HUMAN SERUM ALBUMIN* (EP/USP)

Grifols human serum albumin (EP/USP) (HSA EP/USP) is manufactured from plasma originating in our US-based FDA- and EMA-approved plasmapheresis centers and is licensed according to EP and USP.



IMMUNOGLOBULIN* (EP/USP)

Grifols immunoglobulin is manufactured from plasma originating in our US-based FDA- and EMA-approved plasmapheresis centers and is licensed according to EP and USP.



MALE AB SERUM

Male AB serum is a common supplement in cell therapy culture media and provides a mix of hormones, growth and attachment factors, buffering agents, and other nutritional components



LEUKOPAKS

A leukopak is a blood-derived product, obtained through a specific apheresis process, rich in mononuclear leukocytes, useful for cell therapy as a sourcing material due to its high concentration of leukocytes.

*The product(s) presented are not for therapeutic use.

COMMON USES OF GRIFOLS RAW MATERIALS IN CAR-T MANUFACTURE

Leukopaks
For process development
▼

Immunoglobulin
As Fc block in cell isolation
▼

HSA & Male AB Serum
As part of culture media
▼

Obtain starting material from patient (Leukapheresis)

Isolation of T cells

Transduce isolated T cells to express the CAR

Expansion of CAR expressing T cells

Infusion of CAR expressing T cells into patient

HSA
As cell protective agent in process buffers

HSA
As excipient

For ordering information, contact us here



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GRIFOLS

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