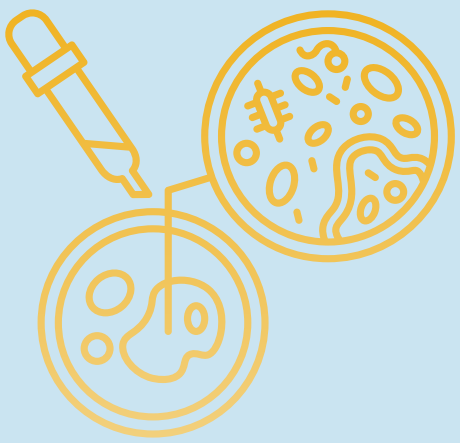
Vitronectin XF™ vs Matrigel®



Stem cells have incredible therapeutic potential for regenerative medicine and cell therapy. However, bringing successful therapeutics to the market requires well-defined, consistent products. Standardizing your stem cell process development early on to ensure consistency can expedite your research and development efforts.

Which Characteristics Benefit Your Stem Cell Process Development?

Vitronectin XF	Matrigel

PERFORMANCE

✓ Supports	**MORPHOLOGY**	Supports ✓
✓ Promotes	**PROLIFERATION**	Promotes ✓
✓ Maintains	**PLURIPOTENCY**	Maintains ✓

EASE OF USE

CULTUREWARE

✓ NON-TREATED WELL PLATE

Vitronectin solution coats the non-tissue culture-treated cultureware.

✗ CULTURE-TREATED WELL PLATE

To ensure cell attachment, Matrigel is dependent on tissue culture-treated well plates.

TEMPERATURE

✓ ROOM TEMPERATURE

Liquid at room temperature.

Thaw Vitronectin and easily use at at room temperature.

✗ COLD/ICE

Not liquid at room temperature.

All materials - media, pipette tips, conical tubes, serological pipettes - must be cold/chilled.

Entire process - preparation, coating application, aliquoting - must be performed cold/on ice.

REGULATORY COMPLIANCE

SOURCE

✓ HUMAN

Recombinant, full-length, human vitronectin prepared under xeno-free conditions.

Avoids safety issues from harmful pathogens and other contaminants found in animal-derived components.

✗ MOUSE

Solubilized basement membrane preparation extracted from the Engelbreth-Holm-Swarm (EHS) mouse sarcoma cells.

COMPOSITION

✓ FULLY DEFINED & SIMPLIFIED

Highly characterized: comprised of a single, defined, recombinant full-length human vitronectin sequence fused to a human immobilization domain, expressed under chemically defined conditions.

Use as part of a completely defined system for complete control over your culture environment, resulting in more consistent cell populations and reproducible results in downstream applications.

✗ UNDEFINED & HETEROGENEOUS

Heterogeneous mix of non-human, animal origin ECM proteins, undefined extracellular components, and growth factors.

Utilizing Vitronectin, a xeno-free, defined, FDA-friendly ECM that encourages cell proliferation, maintains pluripotency, and is produced in large lot sizes to meet your scale-up needs, translates to simpler scale-up and accelerates the all-important pathway for regulatory approval for complex regenerative medicine and cell therapy applications.

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