



HybridomaPlus

Supporting Reliable Antibody Production

Hybridoma technology remains a cornerstone in monoclonal antibody development, from early clone screening to stable production processes. Establishing reproducible systems under serum-free conditions requires culture media that support not only cell viability and density, but also functional antibody output and long-term stability.

Capricorn Scientific offers a two-part system specifically developed for these needs: HybridomaPlus, a protein-free hybridoma medium for sustained suspension growth, and Hybridoma Supplement, a dedicated supplement designed to enhance post-fusion recovery and early clone expansion.

KEY BENEFITS OF HybridomaPlus

>> Reliable Viability Across Passages

Supports stable growth with >90 % viability over ≥12 passages, enabling consistent antibody expression.

>> Chemically Defined, Protein-Free Formulation

No serum – ensuring reproducibility and simplified downstream purification.

>> Tailored Flexibility

Compatible with optional additives such as cholesterol or Poloxamer 188 to support cell-specific needs and process optimization.

>> Hybridoma Supplement for Early-Stage Support

Enhances fusion recovery and clone outgrowth with a optimized mix of growth factors such as insulin, linoleic acid, and hydrocortisone.

>> Scalable Performance in Liquid & Powder

Ready-to-use liquid format or powder version for efficient scale-up and cGMP workflows.

PURPOSE-BUILT FOR EFFICIENT ANTIBODY PRODUCTION

To assess the long-term performance of HybridomaPlus, murine hybridoma cells were cultivated over 12 consecutive passages in serum-free conditions. Viability and viable cell density (VCD) were measured in each passage. No adaptation from serum-containing medium was required.

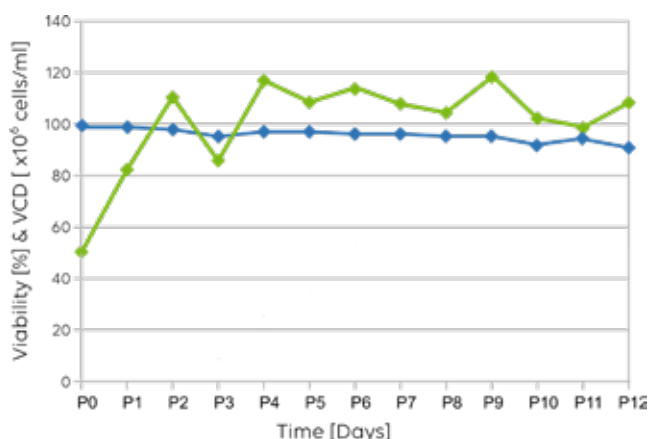


Fig. 1 Hybridoma cells were adapted directly into HybridomaPlus from serum-containing medium and cultivated over 12 passages. Viability (blue) and viable cell density (green) over 12 passages. Cells remained viable and productive without adaptation, demonstrating the robustness of HybridomaPlus for mAb expression.

THROUGHOUT ALL PASSAGES:

- ✓ >90 % viability was maintained
- ✓ VCD exceeded 3.4×10^6 cells/ml

After 12 consecutive passages in HybridomaPlus, hybridoma cells remained viable and productive. A dedicated production run yielded 187 mg/L monoclonal antibody, underscoring the medium's long-term reliability



CAPRICORN SCIENTIFIC – MANUFACTURING YOU CAN TRUST ON

HybridomaPlus is manufactured in our ISO-certified facility under strict quality and regulatory standards. Each batch is subject to comprehensive quality control and documentation, ensuring reproducibility and confidence — from development to scale-up.

Capricorn Scientific combines technical expertise with a commitment to quality. When you choose HybridomaPlus, you choose more than a medium: **You choose process reliability, performance clarity, and a partner who understands biotech manufacturing.**

ORDER INFORMATION

PRODUCT	VOL.	CAT.NO.
HybridomaPlus	500 ml	HY-A
Protein-free Medium for Hybridoma Cells and Monoclonal Antibody Production, with L-Glutamine		
HybridomaPlus	500 ml	HY-XRXA
Protein-free Medium for Hybridoma Cells and Monoclonal Antibody Production, w/o L-Glutamine, w/o Phenol Red		
Hybridoma Supplement, Serum-free	50 ml	HCS-F
Insulin, Human Recombinant Solution (5 mg/ml)	5 ml	INS-K

Also available in bags!



SCAN FOR MORE INFORMATION

For further support, feel free to contact our experts at techservice@capricorn-scientific.com or phone (+49 6424 944 64 0).

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