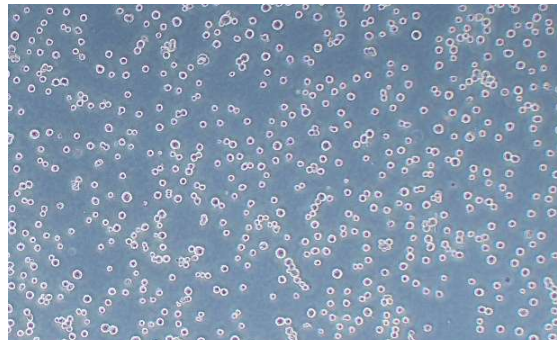


Developed by Nuvonis, CCX cell lines are pioneering quail-derived avian substrates for the industrial manufacturing of virus-based vaccines, vectors and cultivated meat.

Free of foreign genes and viral sequences, these non-GMO cell lines offer a safe, reliable and efficient alternative to conventional culture methods such as chicken embryo fibroblasts (CEF) or eggs.



CCX.E10 cells © Nuvonis

Key features

- **Robust and Scalable:** Stable growth with 0.8-1.0 doublings/ day, adaptable to high cell densities with flasks, cell factories, and 10,000 L bioreactors (fed-batch or perfusion mode)
- **Virus Compatible:** Supports Poxviridae, Herpesviridae, Reoviridae, Flaviviridae, Orthomyxoviridae, Paramyxoviridae, and Rhabdoviridae
- **Animal Component-Free:** Cultured in serum-free and animal component-free media for safe, reproducible manufacturing
- **GMP Manufacturing Ready:** Fully characterised GMP Cell bank system available with complete ICH/WHO compliant testing (CCX.E10)
- **Comprehensive Regulatory Support & Proven Track Record:** Backed by regulatory expertise and dossier-ready data for successful submissions
- **Ready for Development:** Research Cell bank of the same origin ready for immediate use with optimized growth protocols
- **Cultured Meat Ready:** Scalable growth and differentiation under controlled conditions

Applications

Research & Development: Suitable for virus isolation and virus culture
Vaccines, Vectors & Biologics: Efficient platform for global vaccine, vector, and biologics production
Cultivated Food: Reliable substrate for safe, scalable cultivated food manufacturing

Advantages

- **Cost-Effective:** Reduced cost of goods (COGS) compared to traditional chicken embryo fibroblast (CEF) technology
- **Consistent Yields:** Reliable performance in various cell culture systems
- **Fully Documented:** Complete traceability of cell line generation and all raw materials
- **Flexible Licensing:** Attractive conditions tailored to your needs

Literature references

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Jug H, Hosta N, Sbaizero MT, Štrancar A, Brodesser D, Tisch B, Heger T, Wolschek M, Seipelt J, Reiter M. Production and Purification of Newcastle Disease Virus. *BioProcess International.* 2023; 21(1–2): 17-20

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