

Chemically Defined Mesenchymal Stem Cell Medium

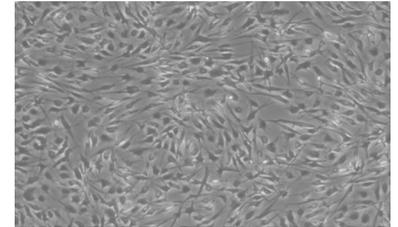
Completely Free of All Human and Animal-Derived Components

Next Generation Expansion of Primary Human Adipose MSCs for Clinical Use

The chemically defined CnT-Prime MSC-CD medium is the first MSC expansion medium that is free of all human and animal-derived components. It uses exclusively recombinant growth factors to provide balanced cell expansion without overstimulation, thus improving retention of key markers over multiple passages.

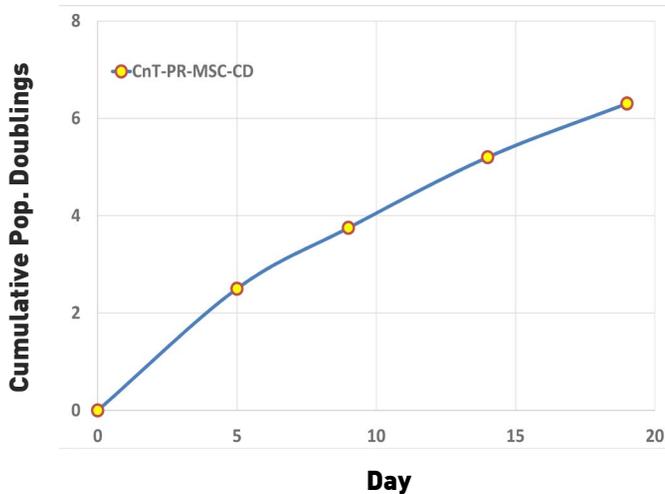
Samples are **now available for beta testing**:

Cat #	Name	Xeno Free	Coating Needed
CnT-PR-MSC-CD	CnT-Prime MSC Medium, Chemically Defined	Yes	No



adMSC expanded in Prime MSC-CD medium, passage 4

Chemically Defined adMSC expansion



Unique Benefits of CnT-Prime MSC-CD medium:

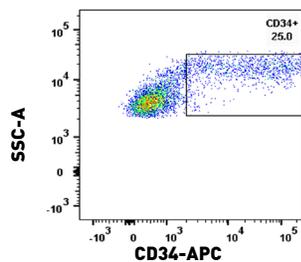
- Fully chemically defined, free of all human and animal-derived components, **no serum-derived factors**
- Balanced formulation does not overstimulate cells, resulting in consistent expansion over 4 passages, without loss of key markers such as CD34 (see below)
- Ideally suited for **clinical use** after isolation in CnT-Prime MSC-XF (Xeno-Free) MSC Medium
- Coating not required

Request your beta-testing sample today!

Marker Expression and Multipotency

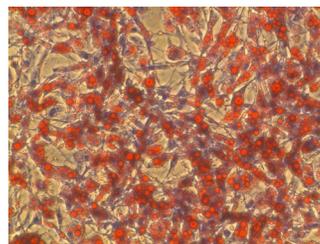
adMSC growing in CnT-Prime MSC-CD medium are CD45⁻/CD31⁻/CD73⁺/CD90⁺/CD105⁺/CD34^{+/-}. Importantly, CD34 expression remains consistently above 20% up until at least passage 4, a significant improvement over traditional media.

Cells also demonstrate strong differentiation even after 4 passages in culture, expressing adipocyte and osteoblast markers following addition of the corresponding supplement packs.



CD34 Expression, Passage 4

CD34-positive cells consistently comprise more than 20% of the entire cell population during at least 4 passages of expansion in CnT-Prime MSC-CD medium.



Lipid Expression, Passage 4

adMSC grown in CnT-Prime MSC-CD medium for 4 passages show high levels of lipid accumulation following addition of adipose differentiation supplements.



Alkaline Phosphatase, Passage 4

After 4 passages in CnT-Prime MSC-CD, adMSC show alkaline phosphatase expression (a key osteoblast marker) following addition of osteoblast differentiation supplements.