

APPLICATION NOTES

Product: HuSu-TRANSCHYMAL- AD

HUMAN PROGENITOR CELLULAR PLATFORM – A TOOL TO HUMANIZE 3D BIOPRINTS & IMPLANTS

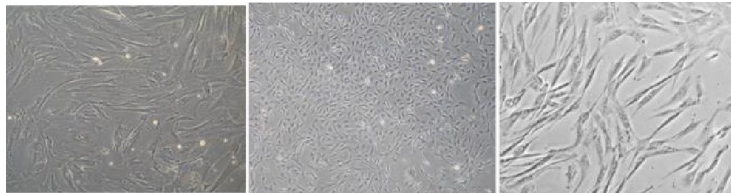
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Product Description:

TRANSCHYMAL™ is an *invitro* human sourced progenitor cell based platform composed of undifferentiated cells with self-renewing capabilities. Each unit is negative for HIV-1, HBV, HCV, Mycoplasma, Bacteria, Yeast and Fungi.

Available in frozen condition. Ready to use with customized yield per vial.

Phenotypically identifiable TRANSCHYMAL platform:



Transchymal-UC Transchymal-AD Transchymal-DP

Variants:

Transchymal-AD (CAT# TR-ADMSC-10m)

Source: Normal (non-diabetic) adult lipoaspirates collected during elective surgical liposuction. Each lot of Transchymal-AD originates from a single donor of fat stromal tissue. Each vial contains cells that express CD13, CD29, CD44, CD73, CD90, and CD105

Biocompatibility:

| Material | Tested to be biocompatible, supporting proliferation of |
|-------------------------------|---|
| Collagen | Transchymal-UC, Transchymal-DP, Transchymal-AD |
| Matrigel | Transchymal-UC, Transchymal-DP, Transchymal-AD |
| Hyaluronic acid (HLA) | Transchymal-UC, Transchymal-DP |
| Laminin | Transchymal-UC |
| Fibrin | Transchymal-UC, Transchymal-DP, Transchymal-AD |
| Poly-lactic acid (PLA) | Transchymal-UC, Transchymal-DP |
| Poly-glycolic acid (PGA) | Transchymal-UC, Transchymal-DP, Transchymal-AD |
| Human Amniotic Membrane (HAM) | Transchymal-UC, Transchymal-DP, Transchymal-AD |
| Titanium | Transchymal-UC, Transchymal-DP |
| Zirconium | Transchymal-UC, Transchymal-DP |
| Titanium alloy | Transchymal-UC |

Recommendation:

Transchymal-AD: For a multi-cellular 3D model of human breast tissue to replace rodent xenograft models

Advantages: Ready to use; No culturing procedure involved to use; No further expansion or passage to use; Read outs can be at cellular, molecular and protein levels mimicking human physiological milieu in the scaffold used

Benefits: Best suited as the invitro platform available in abundance, amicable to be modelled to perform exploratory preclinical assays at large scale

TRANSCHYMAL for:

Type of testing:

Screening, Invitro tests on 3D model-Pre-clinical research models, Toxicity testing screens

