

ECM Analog Technology

The technology, ECM Analog Technology, is a cell-interactive biomaterial for three dimensional cell cultures in a natural tissue-like condition to create artificial living tissues/organs of human and animal origin. ECM Analog biomaterial technology offers complete customization of biological (cell interactivity) and engineered properties simultaneously for the manufacturing process.

ECM Analog creates tissue like environment by Extra Cellular Matrix mimicry and allow cell culture from virtually any tissue in three dimensions and hence create an artificial living tissue equivalent. ECM Analog therefore is best biomaterial platform option for tissue engineering and stem cell technology for clinical and diagnostic solution development.

Salient features

- An artificial extra cellular matrix product and artificial human and animal tissue product comprising tissue specific cells
- This is a fast and convenient means of preparing 3D scaffold and cell-scaffold constructs
- Artificial assembly of live tissues on demand
- Convenience that is comparable to conventional cell culture
- Easy manufacturing at low cost

Areas of application

- Biomedical engineering
- Regenerative medicine
- Cell therapy
- Stem cell application development
- Wound healing
- As tool for Research & Development in cell biology, diagnostics and screening of new drugs toxicity

End users

- Scientists and technicians involved in cell culture related activities in a number of industry and market segments.