

## **Improves Time to Result**

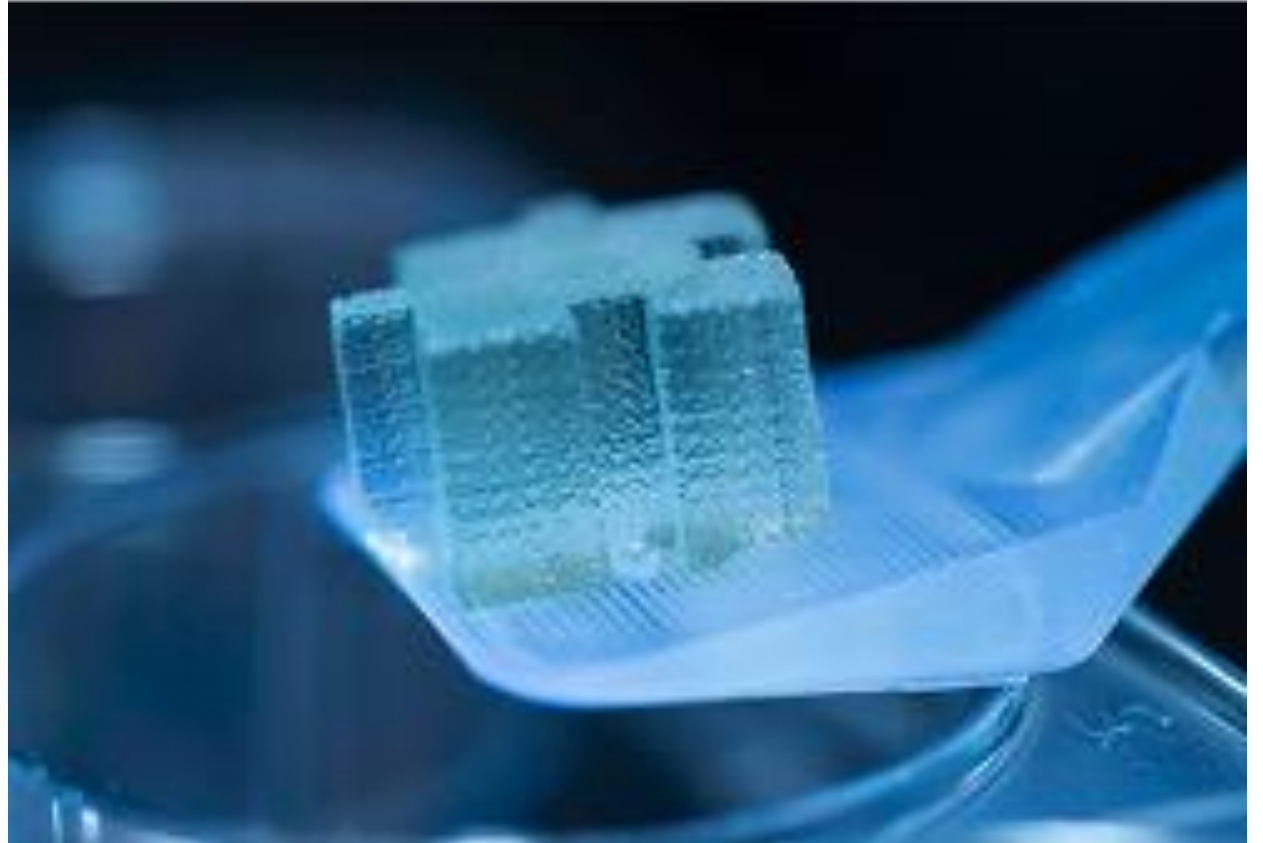
- Supersizes any growth vessel for any project.
- More consistent phenotypes.
- Reduction in senescence.
- Decreases risk of contamination.
- Increases yield.

## **Transforms Tedious to Effortless**

- Simplifies workflow.
- Reduces time, labor, materials, & space.
- Eliminates subculturing.

## **Increases Biological Opportunities**

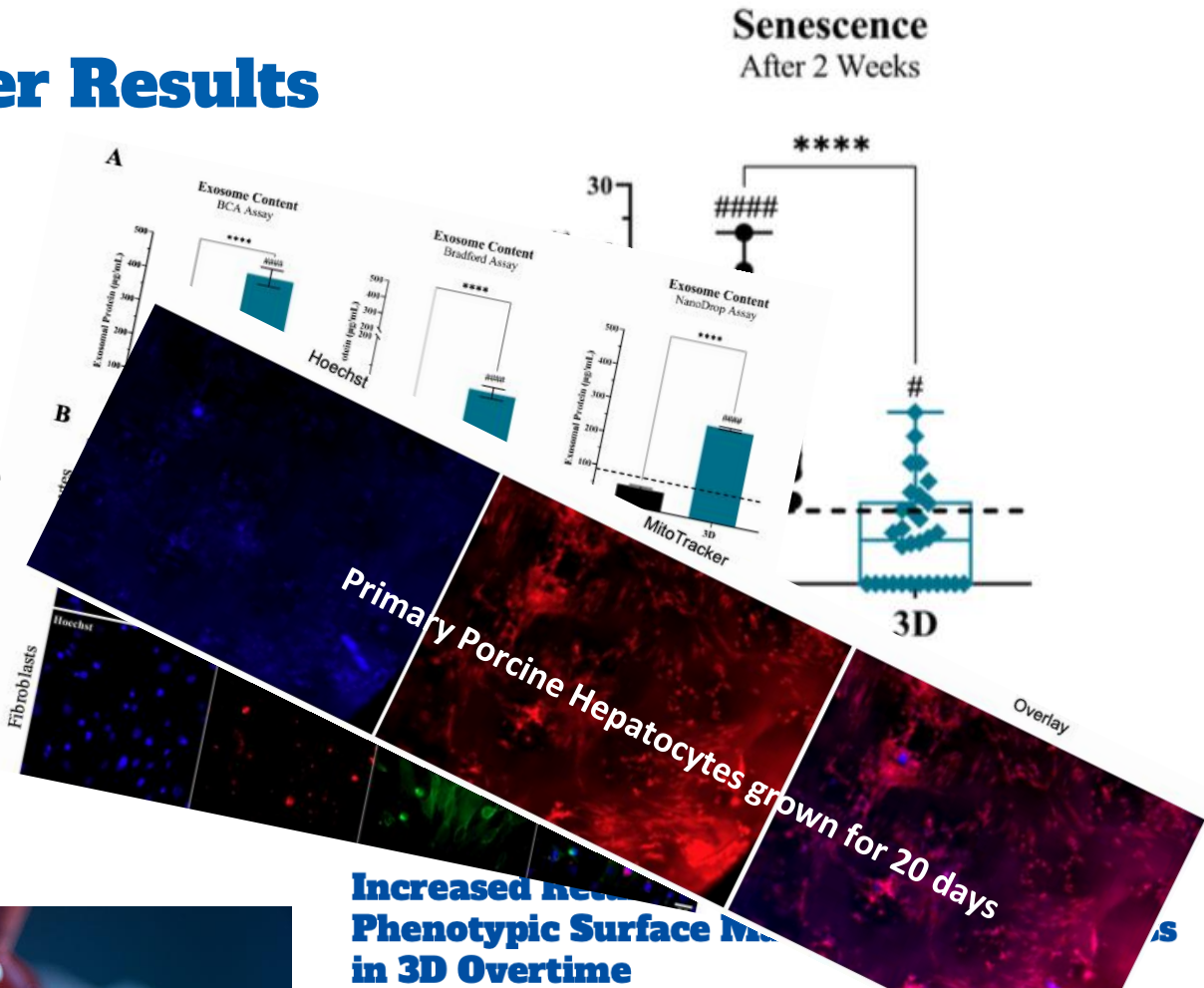
- Maintains presentation of cell characteristics.
- Expandable substrate.
- Increases biologics production.



# Better Process = Better Cells = Better Results

## Bio-Blocks are:

- are showing a reduction in senescence
- more *consistent phenotypes* over longer periods
- up to **82X more efficient** than standard culture vessels
- *reduce media consumption by 98%* than standard culture vessels
- *reduce contamination risk by 92%* than standard culture vessels
- significantly higher production of *exosomes*
- extremely high viability

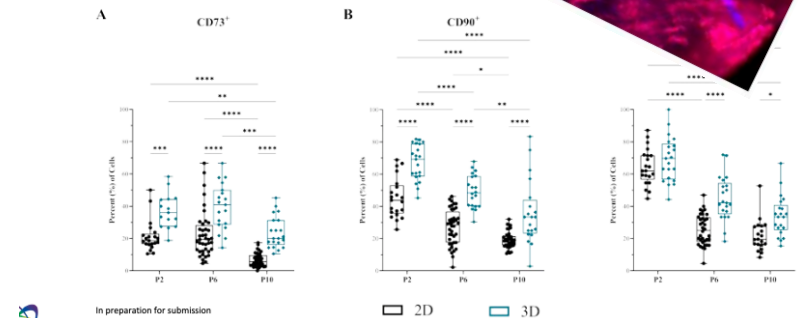
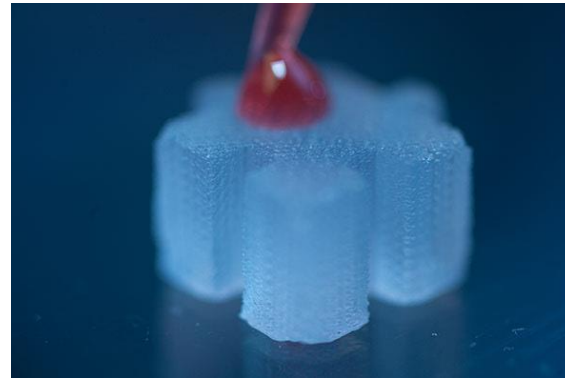


## For more info:

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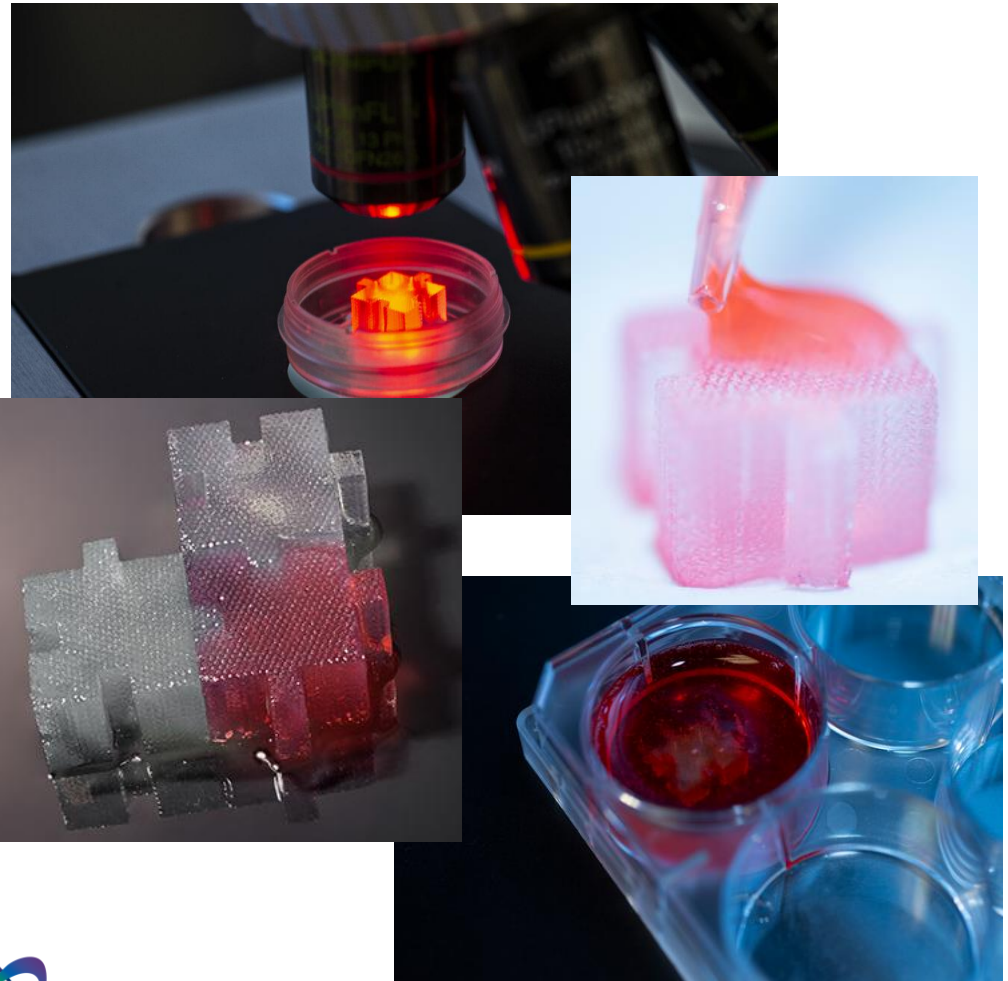


**Which Bio-Block™ is right for you?** Bio-Blocks create micro-environments designed to make life easier and more consistent for any lab growing mammalian cell cultures.

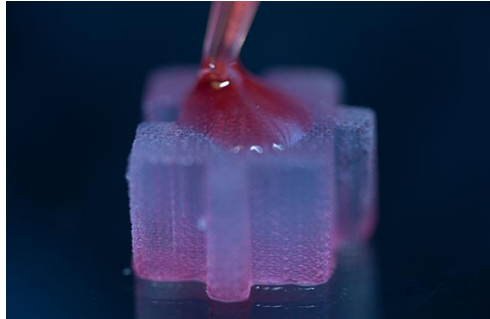
**E-Blocks** are ideal for production of Extra Cellular By-Products (protein, exosomes, extra cellular vesicles, etc.). The cell mg/mL production is on par or surpasses all other environments.

**T-Blocks** are perfect for Physiological Modeling (tissue, organoids, spheroids, etc.).

**X-Blocks** provide ideal conditions for massive Cell Growth & Retrieval. Our X-Tract reagent gently dissolves the X-Block and provides retrieval of ~95% of cells for downstream applications such as RNASeq.

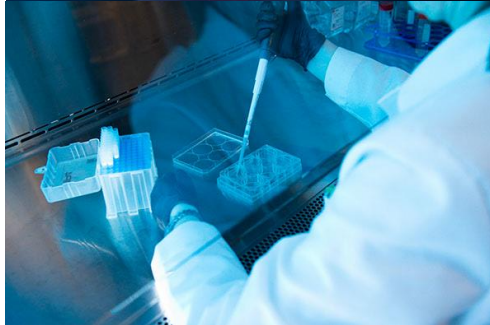


# Bio-Blocks™ an Easy 3 to 5 Step Process



## Step 1: Coating (optional)

Marinate Blocks in a coating. T-Blocks have to be coated. This step is optional and not required for E & X-Blocks.



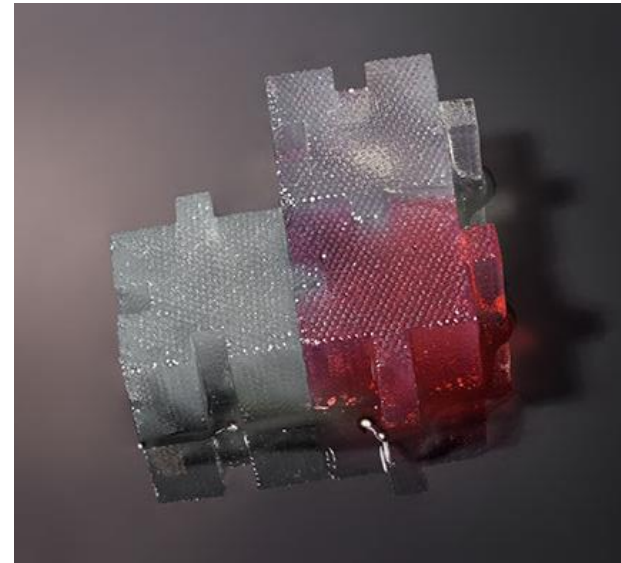
## Step 2: Seeding

Seed Bio-Block w/cells of choice. The Blocks are agnostic and will accept any cell line.



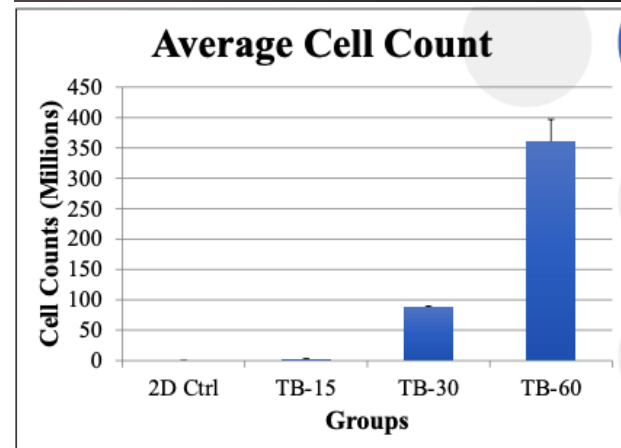
## Step 3: Feeding

Change media accordingly with your current protocol. The Blocks can be used with any media formulation.



## Step 4: Expanding (optional)

It is never too early to add a Block. E, T, & X-Blocks all work together, providing a lot of options. Remember we eliminate sub-cultures. This means less genetic drift, more consistent phenotypes, and significantly less contamination.



## Step 5: Harvest

The T-Block can be treated just like tissue. The E-Block is outstanding for biologics and proof of concept. The X-Block allows for over 95% cell retrieval using our X-Tract Cell Retrieval Reagent.

Wharton Jelly cells – 100K seeding, grown over 60 days.

Blocks can be seeded up to 1m cells, which will accelerate growth in a shorter period.

What can you do?

