



Native Human-Derived ECM (Lyophilized)

Cat. No. MT005

Lot. No. (See product label)

Product Description	Due to its human origin and minimal processing, Native Human-Derived ECM retains the native matrix proteins and growth factors found in human tissue including collagen, elastin, laminin, glycosaminoglycans and many other matrix proteins.
Application	Native Human-Derived ECM is ideal for many applications including coating tissue culture surfaces to support cell attachment and growth or for making hydrogels.
State	Lyophilized
Biological Source	Human
Storage/Stability	Stored at -20 °C upon receipt
Shelf Life	6 months after opening
Note	<p>Making 3D Hydrogels</p> <p>Note: All procedures should be performed in a cold room or on ice. All reagents should be cooled prior to making the hydrogel. To prevent premature gelation, keep solutions between 2-10°C. Concentrations will need to be tested to determine the optimal gel concentration for each application. Native Human-Derived ECM has been tested and found to form a gel at ≥ 3 mg/mL final concentration.</p> <p>1. Reconstitute Native Human-Derived ECM(Lyophilized) in 10-20 mM HCl with a pH of 1.9-2.1. It is recommended to use ultrapure sterile water to make the 10-20 mM HCl.</p>

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

www.matexcel.com/hydrogel

Address: SUITE 210, 17 Ramsey Road, Shirley, NY 11967

Email: info@matexcel.com Tel: 1-631-869-4956 Fax: 1-631-910-2166



2. Prepare 10x culture medium or 10x PBS with antibiotic and antimycotic.
 3. Combine 9 volumes of chilled solution with 1 volume of chilled 10x concentrated medium or 10x PBS.
 4. Gently swirl or pipette the mixture repeatedly.
 5. Adjust the pH to 7.0-8.0, preferably around 7.4. Concentration and pH will affect the speed and strength of the final gel. Once pH has been adjusted, cells can be added to the solution if desired.
 6. Incubate at 37°C for 30-120 minutes for gel formation depending on final concentration.
-

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

www.matexcel.com/hydrogel

Address: SUITE 210, 17 Ramsey Road, Shirley, NY 11967

Email: info@matexcel.com Tel: 1-631-869-4956 Fax: 1-631-910-2166