Info Sheet for Technical description

No.0007

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Organization	
Organizacion	

* Mandatoty fields MATRIXOME, Inc. Name of Organization* Address, City, States, Zip, Country* 3-2 Yamadaoka, Suita-shi, Osaka 565-0871, Japan URL https://matrixome.co.jp/en/ Matrixome Inc. is a biotechnology company specializing in the development, production, and distribution of extracellular matrix (ECM) proteins, particularly recombinant laminin fragments such as iMatrix-511. These innovative substrates provide defined, xeno-free, and highly reproducible environments for the culture of human Brief Descriptions of Organization* embryonic stem (ES) and induced pluripotent stem (iPS) cells. Matrixome supports both basic research and clinical (Approx. 100 words) applications in regenerative medicine. The company also pursues next-generation ECM technologies, such as perlecan conjugated laminin fragmens, to advance cell therapy, tissue engineering, and pharmaceutical research worldwide. TAKUJI YAMAMOTO Contact address Department* / Position Administration/ CEO

Wildt Kill	d of technology do you want to offer?	
	A. Clinical Development Pipelines	→ Please see Sheet 【A
V	B. Regenerative Medicine-related Consumables / Instruments / Materials / CDMO Servicies etc.	→ Please see Sheet (B)
	C. Platform Technologies(*) that are not included in the above (Group B)	→ Please see Sheet [C
	* Peripheral technologies that contribute to a significant improvement in productivity throughout	

E-mail* / TEL

If you agree to the following, please check "Yes" below. *

What kind of tochnology do you want to offer? *

The technologies introduced in this 'Info Sheet' are in the public domain, as they have been published in research papers or have related patent applications.

the value chain of pharmaceuticals, from research and development to manufacturing and

Do v	you have any	collaborations/	partnershi	ps with	pharmaceutical	companies?

☐ Yes☑ No

If you have already received funding from VCs or other sources, up to which stage has the investment round progressed?

Angel / Seed	(including AMED/JST grants)
Series A	
Series B	
Series C	
Series D or fu	rther advenced stages

Do you agree to leave your presentation materials at FIRM hands and entrust us to make use of them for the purpose of promoting your partnering opportunities? *

	Options*	Comments
Ø	Yes	
	No	

Filled in by*	TAKUJI YAMAMOTO		
Date*	1. Sep. 2025		

Sheet [B] Regenerative Medicine-related Consumables / Instruments / Materials / CDMO Servicies etc.

Info Sheet for Technical overview

					No. B-0007
					* Mandatoty fields
Title*					
		<u>iMatr</u>	ix for cell culture substrate		
Category*					
	Facilities		Manufacturing equipment		Inspection equipment
	Cells		Culture medium		Reagents
	Cell banking		Storage / Container		Logistics
	Cell / Viral vector manufacturing technology				
Descriptio	n*				
MATRIXOME Inc. is a leading biotechnology company in Japan dedicated to providing advanced extracellular matrix (ECM) technologies for stem cell research and regenerative medicine. The company's flagship iMatrix series consists of recombinant laminin fragments, particularly laminin–511 E8, which serve as highly defined, xeno–free substrates for the culture of human Embryonic Stem Cells (ES), induced Pluripotent Stem Cells (iPS) and Mesencymal Stemm Cells. These products, such as iMatrix–511, iMatrix–511 silk and iMatrix–511MG, enable stable Stem Cell adhesion, expansion, and maintenance of pluripotency under chemically defined conditions, supporting both basic research and clinical applications worldwide. Building upon this expertise, MATRIXOME is now developing next–generation perlecan–laminin (perLAM) conjugates, designed to further enhance cell culture environments. Perlecan, a heparan sulfate proteoglycan naturally present in basement membranes, interacts with various growth factors and signaling molecules. By engineering laminin fragments covalently linked to perlecan domains, MATRIXOME aims to provide culture substrates that not only promote robust integrin–mediated adhesion but also deliver bioactive cues through growth factor binding. This dual functionality offers new possibilities for efficient cell expansion, differentiation control, and improved scalability in regenerative medicine manufacturing. Through these innovations, MATRIXOME continues to advance ECM–based technologies that bridge basic research and clinical applications, contributing to the future of cell therapy and tissue engineering.					
	Filled in by*		TAKUJI YA	MAMOTO	
	Date*		1. Sep.		