



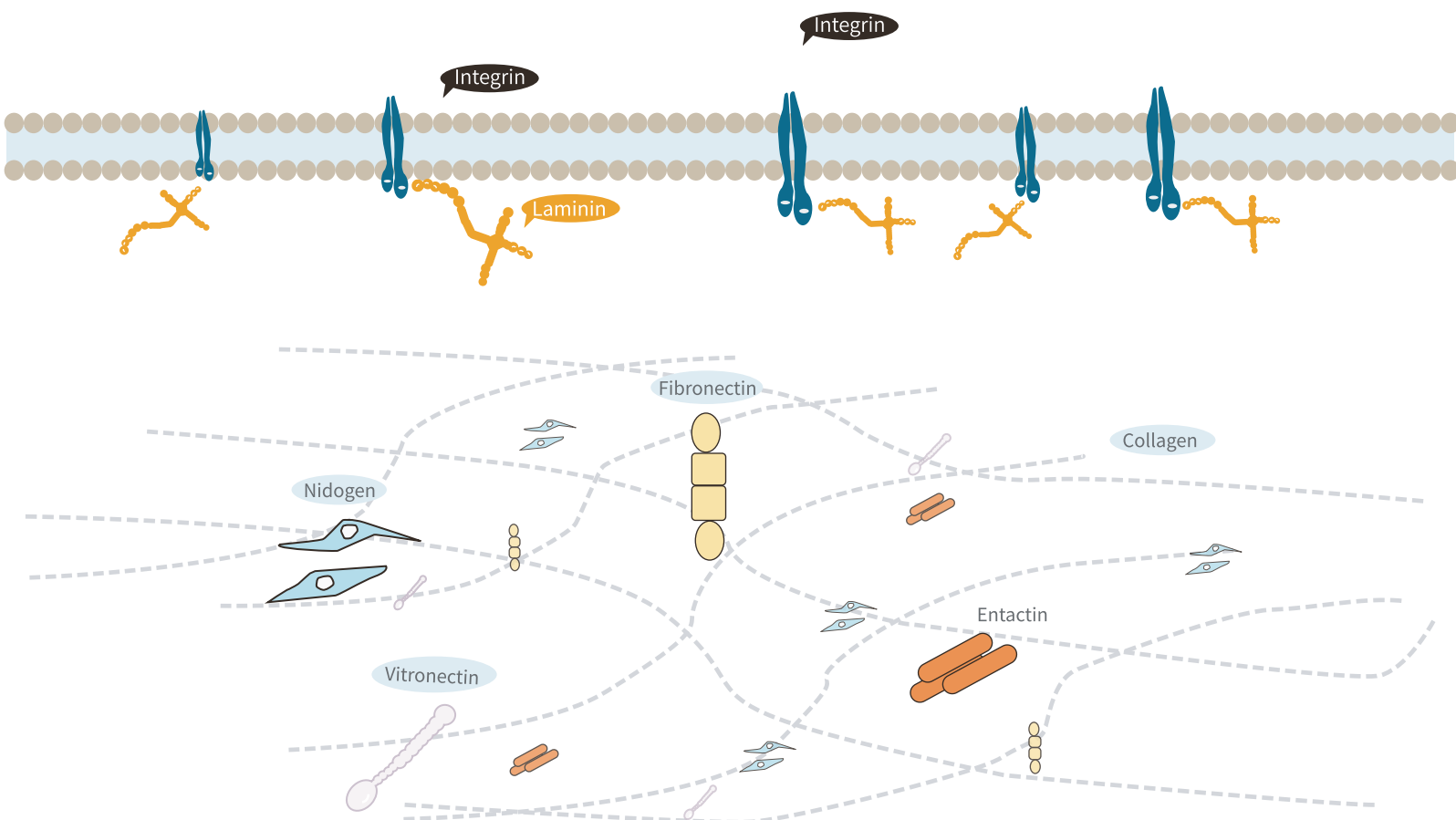
# mSRCgel Extracellular Matrix



## mSRCgel Extracellular Matrix

Extracellular matrix (ECM) is a dynamic 3-dimensional network of macromolecules that provides structural support for the cells and tissues. The ECM is also a reservoir of growth factors and bioactive molecules. It is a highly dynamic entity that is of vital importance, determining and controlling the most fundamental behaviors and characteristics of cells such as proliferation, adhesion, migration, polarity, differentiation, and apoptosis.

**mSRCgel** is a natural basement membrane (BM) extracted from **mouse sarcoma** tumor cells. mSRCgel is rich in ECM proteins, including laminin, collagen IV, heparan sulfate proteoglycan (perlecan), entactin, and many essential growth factors.



Type	Product Name	VC Cat #	Size	Description/Application
Standard	mSRCgel Extracellular Matrix Extracted from EHS mouse sarcoma [+] Phenol Red	C2010-0010 C2010-0005	10 mL 5 mL	Cell growth, differentiation, morphological study, cytochemical function, cell invasion
	mSRCgel Extracellular Matrix Extracted from EHS mouse sarcoma [-] Phenol Red	C2011-0010 C2011-0005	10 mL 5 mL	
Reduced Growth Factor	mSRCgel Extracellular Matrix, Reduced Growth Factor Extracted from EHS mouse sarcoma [+] Phenol Red	C2020-0010 C2020-0005	10 mL 5 mL	Suitable for applications where a more highly defined basement membrane preparation is desired. It has been used to study gene expression in primary mouse mammalian epithelial cells (reduc- ing background signals induced by growth factors).  Protein concentration: 8-13 mg/mL
	mSRCgel Extracellular Matrix, Reduced Growth Factor Extracted from EHS mouse sarcoma [-] Phenol Red	C2021-0010 C2021-0005	10 mL 5 mL	
High Protein Concentration	mSRCgel Extracellular Matrix, High Protein Concentration Extracted from EHS mouse sarcoma [+] Phenol Red	C2030-0010 C2030-0005	10 mL 5 mL	<i>In vivo</i> angiogenesis studies, 3D tumor models  Protein concentration: 16-26 mg/mL
	mSRCgel Extracellular Matrix, High Protein Concentration Extracted from EHS mouse sarcoma [-] Phenol Red	C2031-0010 C2031-0005	10 mL 5 mL	
	mSRCgel Extracellular Matrix, High Protein Concentration, Reduced Growth Factor Extracted from EHS mouse sarcoma [+] Phenol Red	C2032-0010 C2032-0005	10 mL 5 mL	
	mSRCgel Extracellular Matrix, High Protein Concentration, Reduced Growth Factor Extracted from EHS mouse sarcoma [-] Phenol Red	C2033-0010 C2033-0005	10 mL 5 mL	
Stem Cell	mSRCgel iPSC-Qualified Extracellu- lar Matrix Extracted from EHS mouse sarcoma [+] Phenol Red	C2040-0010 C2040-0005	10 mL 5 mL	Stem cell research, providing the reproducibility and consistency required for trophoblastic cultures of human embryonic stem cells and induced pluripotent stem cells.  Protein concentration: 8-13 mg/mL
Organoid	mSRCgel Organoid-Qualified Extracellular Matrix Extracted from EHS mouse sarcoma [+] Phenol Red	C2050-0010 C2050-0005	10 mL 5 mL	Organoid research, miniorgans of the kidney, thyroid, liver, brain, lung, breast organs etc.  Protein concentration: 8-13 mg/mL

# 04 mSRCgel Extracellular Matrix for Organoid Culture

## Organoid Culture

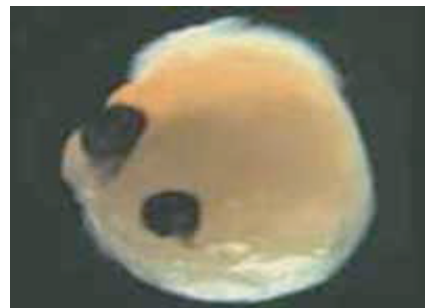
Organoid is a 3D cell culture that can mimic the functionality of the *in vivo* counterparts. Organoid is cultivated from different cells *in vitro*. It has similar histological characteristics with human tissues/organs and can partially reproduce the physiological functions of tissues/organs.

### Features:

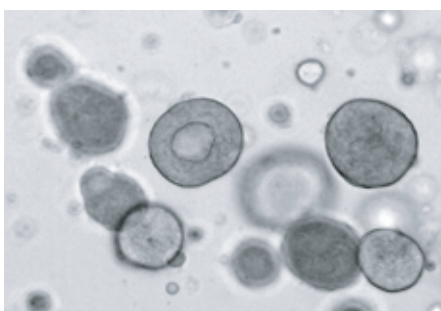
- △ Protein concentrations determined by the BCA method.
- △ Protein Concentrations: 8-13 mg/ml
- △ Endotoxin determined by the LAL method.
- △ Gel Formation: Stable gel forms within 30 minutes at 37°C.
- △ Gel stability is tested for a period of 14 days at 37°C.
- △ Tested and found negative for bacteria, fungi, and mycoplasma.
- △ Mouse colonies screened for mouse Sendai virus, mouse hepatitis virus, mouse pox virus, mouse pneumonitis virus, reovirus type III, mouse parvovirus, mycoplasma mouse pneumonis, Taize pathogen and Toxoplasma gondii.
- △ Cell Culture:
  - Test 3 kinds of organoid
  - Culture test of small intestine organoid from mice for 7 generations
  - Angiogenesis assay
  - 3D tumor spheroid



Cardiac organoid



Retinal organoid



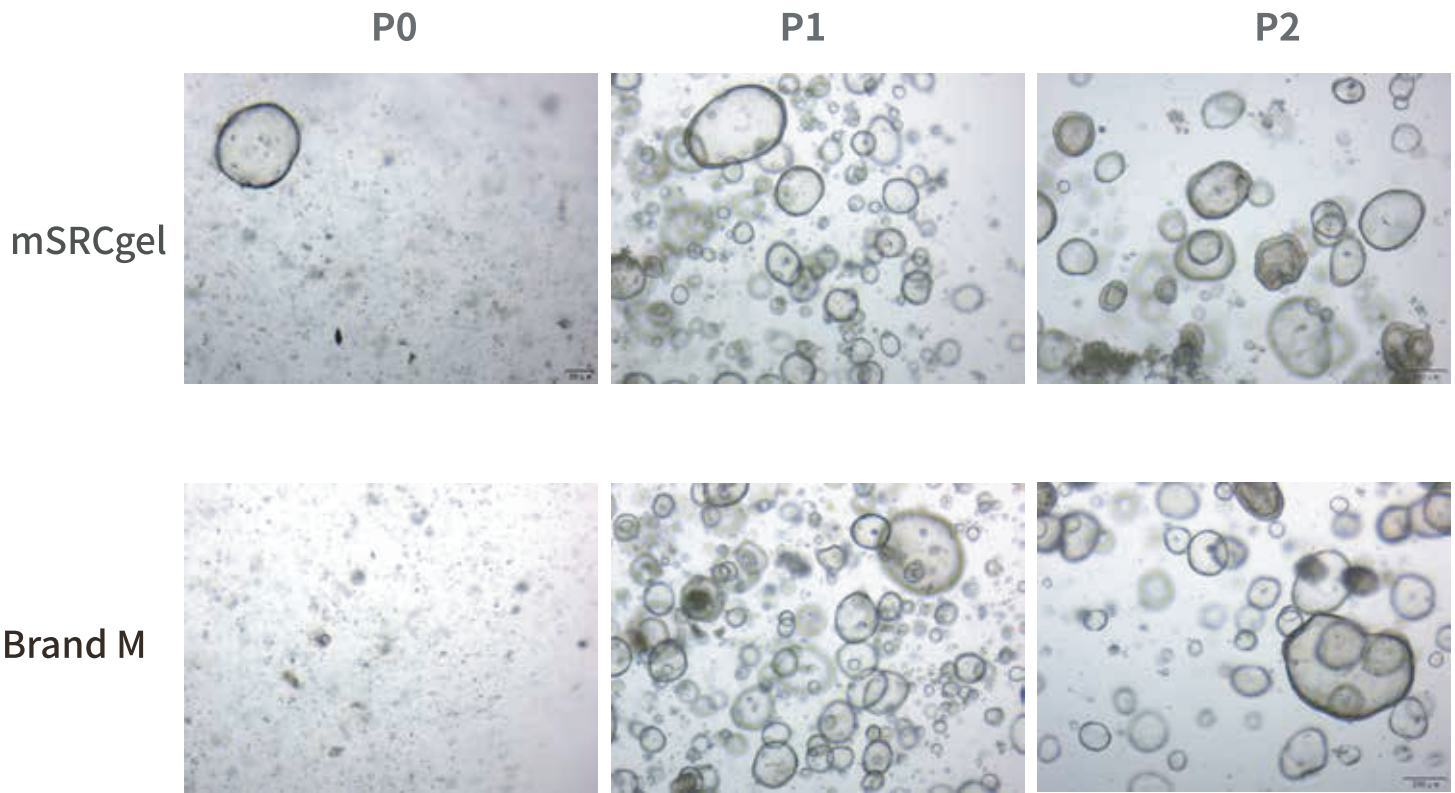
Hepatobiliary organoid



Mouse small intestinal organoid

# Gastric organoid

## mSRCgel VS Brand M



Gastric organoid cultured with mSRCgel and Brand M, mSRCgel has the same characteristics, showing typical vesicular structure. mSRCgel can support the growth of gastric organoid as well as Brand M.

## Ordering Information

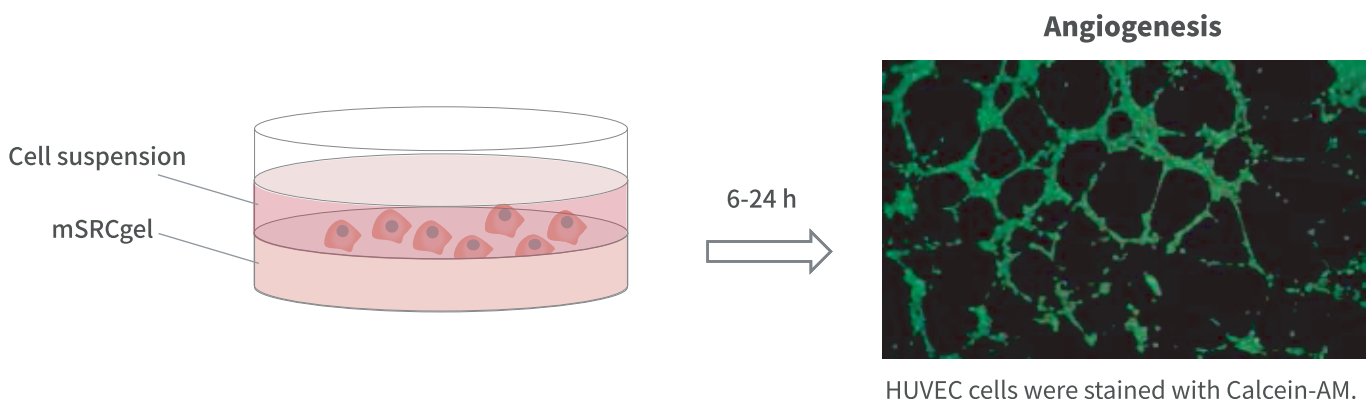
Product Name	VC Cat #	Size	Description/Application
mSRCgel Organoid-Qualified Extra-cellular Matrix	C2050-0010	10 mL	Organoid research
Extracted from EHS mouse sarcoma	C2050-0005	5 mL	Protein concentration: 8-13 mg/mL
[+] Phenol Red			

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## mSRCgel Extracellular Matrix for Angiogenesis Assay

Angiogenesis is a highly regulated process that involves the growth of new blood vessels from the existing vasculature. Angiogenesis is a hallmark of cancer, being necessary for both the growth (progression) and spread (metastasis) of cancer. Before a tumor can grow larger than a few millimeters in size, new blood vessels are needed to ensure an adequate supply of oxygen and nutrients to the cells. Since tumors can't grow in the absence of angiogenesis, drugs inhibiting angiogenesis are now used with several types of cancer.

Extracellular matrix (ECM) is essential for all stages of angiogenesis. In adult, angiogenesis begins with endothelial cell activation, degradation of vascular basement membrane, and vascular sprouting within interstitial matrix.





## mSRCgel Extracellular Matrix

### Features

- △ Protein concentrations determined by the BCA method.
- △ Protein Concentrations: 8-10 mg/ml
- △ Endotoxin determined by the LAL method.
- △ Gel Formation: Stable gel forms within 30 minutes at 37°C.
- △ Gel stability is tested for a period of 14 days at 37°C.
- △ Tested and found negative for bacteria, fungi, and mycoplasma.
- △ Cell Culture:
  - Angiogenesis assay
  - 3D tumor spheroid

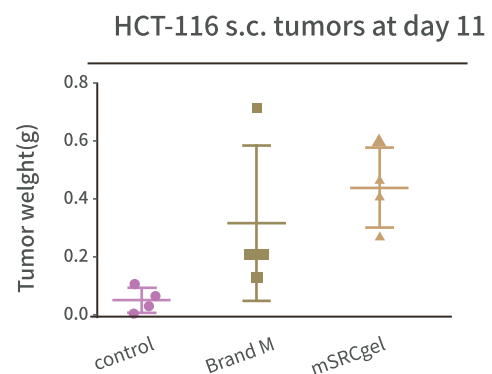
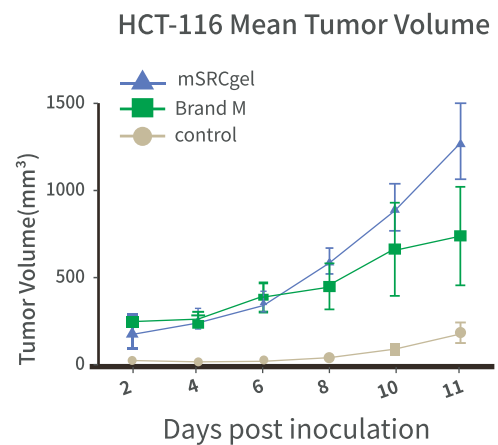
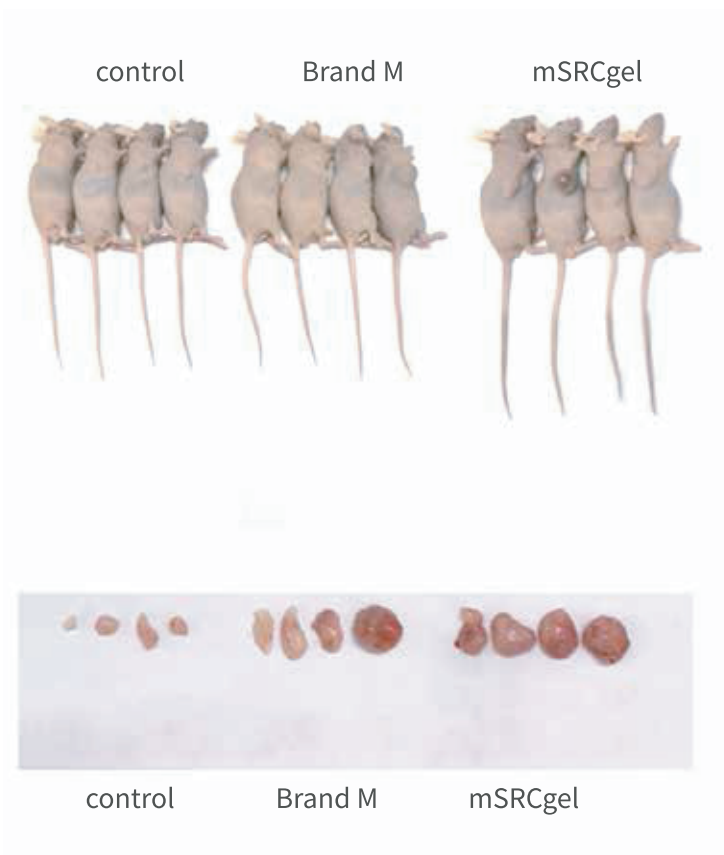
### Ordering Information

Product Name	VC Cat #	Size	Description/Application
mSRCgel Extracellular Matrix Extracted from EHS mouse sarcoma [+] Phenol Red	C2010-0010 C2010-0005	10 mL 5 mL	Cell growth, differentiation, morphological study, cytochemical function, cell invasion Protein concentration: 8-13 mg/mL
mSRCgel Extracellular Matrix, High Protein Concentration Extracted from EHS mouse sarcoma [+] Phenol Red	C2030-0010 C2030-0005	10 mL 5 mL	
mSRCgel Extracellular Matrix, High Protein Concentration Extracted from EHS mouse sarcoma [-] Phenol Red	C2031-0010 C2031-0005	10 mL 5 mL	<i>In vivo</i> angiogenesis studies, 3D tumor models Protein concentration: 16-26 mg/mL
mSRCgel Extracellular Matrix, High Protein Concentration, Reduced Growth Factor Extracted from EHS mouse sarcoma [+] Phenol Red	C2032-0010 C2032-0005	10 mL 5 mL	
mSRCgel Extracellular Matrix, High Protein Concentration, Reduced Growth Factor Extracted from EHS mouse sarcoma [-] Phenol Red	C2033-0010 C2033-0005	10 mL 5 mL	

# mSRCgel Extracellular Matrix for Xenograft cancer models

Human cancer xenografts in immunodeficient mice are widely used in cancer research and provide vital models for the study of tumor growth and the response to therapy in preclinical research. Several human cancer cell lines can be successfully implanted onto immune deficient mouse models, but variations in take rate and growth of solid tumors makes their use challenging. The ECM is commonly used to improve tumor take and growth. In preclinical research ECM is used frequently for the establishment of syngeneic and xenograft cancer models.

## mSRCgel VS Brand M





## mSRCgel Extracellular Matrix High Protein Concentration

### Features

- △ Protein concentrations determined by the BCA method.
- △ Protein Concentrations: 16-26 mg/ml
- △ Endotoxin determined by the LAL method.
- △ Gel Formation: Stable gel forms within 3 minutes once dropping on the hand
- △ Gel stability is tested for a period of 14 days at 37°C.
- △ Tested and found negative for bacteria, fungi, and mycoplasma.
- △ Mouse colonies screened for mouse Sendai virus, mouse hepatitis virus, mouse pox virus, mouse pneumonitis virus, reovirus type III, mouse parvovirus, mycoplasma mouse pneumonitis, Taize pathogen and Toxoplasma gondii.
- △ Cell Culture:
  - Xenograft assay
  - Angiogenesis assay
  - 3D tumor spheroid

Product Name	VC Cat #	Size	Description/Application
mSRCgel Extracellular Matrix, High Protein Concentration Extracted from EHS mouse sarcoma [+] Phenol Red	C2030-0010 C2030-0005	10 mL 5 mL	
mSRCgel Extracellular Matrix, High Protein Concentration Extracted from EHS mouse sarcoma [-] Phenol Red	C2031-0010 C2031-0005	10 mL 5 mL	<i>In vivo</i> angiogenesis studies, 3D tumor models Protein concentration: 16-26 mg/mL
mSRCgel Extracellular Matrix, High Protein Concentration, Reduced Growth Factor Extracted from EHS mouse sarcoma [+] Phenol Red	C2032-0010 C2032-0005	10 mL 5 mL	
mSRCgel Extracellular Matrix, High Protein Concentration, Reduced Growth Factor Extracted from EHS mouse sarcoma [-] Phenol Red	C2033-0010 C2033-0005	10 mL 5 mL	



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