

## ADSCCult I Primary

DMEM/F-12, EGF, FGF, PDGF, Human Serum Albumin (U.S.P), Sodium Pyruvate, L-Glutamine, Antibiotic-antimycotic

**Catalog number: 118**

**Size:** 100 mL

### Intended Use:

ADSCCult I Primary is a ready-to-use media, designed especially for primarily culturing and isolating adipose-derived mesenchymal stem cells from a stromal vascular fraction.

ADSCCult I Primary is for *in vitro* use only. Not suitable for diagnostic, therapeutic, and clinical procedures.

### Summary and Explanation:

ADSCCult I Primary has been developed to isolate mesenchymal stem cells from adipose tissue by culturing stromal vascular fraction. ADSCCult I Primary is a complete and xeno-free media, enriched with human serum albumin (USP) and essential growth factors. Further, HEPES buffer is added to maintain the physiological pH of ADSCCult I when being handled both inside and outside of an incubator.

ADSCCult I Primary is supplemented with antibiotics (penicillin and streptomycin) and antimycotics (amphotericin B) to inhibit the bacteria and fungi growth in primary culture.

### Known Applications:

ADSCCult I Primary is tested to isolate adipose-derived mesenchymal stem cells from human and mouse adipose tissue by culturing stromal vascular fraction or tissue explant.

### Reagents Provided:

- 100 mL ADSCCult I Primary

### Reconstitution, Dilution, and Mixing:

ADSCCult I Primary is prepared at 1X concentration. No dilution is required.

### Materials and Reagents Required But Not Provided:

Not applicable.

### Storage and Stability:

Stored at -20 – 8°C. Avoid prolonged light exposure.

Shelf life at 12 months.

### Instructions for Use:

*For culturing stromal vascular fraction (SVF)*

1. SVF is extracted from adipose tissue using Cell Extraction Kit or Cell Extraction EZ Kit
2. Resuspend SVF in ADSCCult I Primary at  $10^5$ - $10^6$  cells per mL. Mix thoroughly to achieve a homogenous cell suspension.
3. Pipet a volume of cell suspension according to the recommended seeding density, to a cell culture vessel. Add an appropriate amount of pre-warmed ADSCCult I primary according to the vessel ( $0.12 \text{ mL/cm}^2$ ).
4. Put culture vessels in the incubator at  $37^\circ\text{C}$ , 5%  $\text{CO}_2$  for 5 days. *Do not observe culture vessels daily or strongly shake the incubator.*
5. On day 5, take culture vessels out of the incubator and observe the cells under an inverted microscope.
6. Change the medium in culture vessels with fresh ADSCCult I Primary\*. *Do not wash cells.*
7. Change with the fresh medium of ADSCCult I Primary\* every couple of days until cell confluency reached to 70%.
8. Sub-culture using Deattachment to get the single cells, and culture at splitting ratio 1:3 in ADSCult I\* medium.

\* *Pre-warming media is optional.*

### Limitations:

Not applicable

### Quality Control:

- pH: 7.2 – 8.2
- Colour: Clear red-pink
- Osmolality: 286-356 mOsm/kg
- Sterility: Negative
- Mycoplasma: <0.9 RLU/s

- Endotoxin:  $\leq 1$  EU/mL
- Volume: 100 (+1) mL, 500 (+5) mL
- Mesenchymal stem cell culture assay
  - Adhesion ability: Yes
  - Peeling/shrink phenomenon: No
  - Proliferation ability: Yes

**Precautions:**









Do not use the product if the packaging is compromised or cracked and/or the media shows discoloration and cloudy appearance.

**Troubleshooting:**

Not applicable

**Explanation of symbols and warnings:**

The symbols on produce labels are explained below:

			
Use By:	Batch code	Keep away from light	Catalog number
			
Temperature Limitation	Consult instructions for use	Caution, consult accompanying documents	Sterilized using aseptic processing techniques

**Related products**

Products	Catalog No.
<b>Washing Buffer</b>	
100 mL	149
500 mL	150
<b>MSCCult I primary</b>	
100 mL	110
<b>ADSCCult I</b>	
100 mL	116
500 mL	117
<b>Deattachment</b>	
100 mL	120
500 mL	121

To purchase other products, please visit:

<http://biomedmart.org>

For further information: Please contact us at:

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