

Materials List for:

Generation of Human Adipose Stem Cells through Dedifferentiation of Mature Adipocytes in Ceiling Cultures

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Materials

Name	Company	Catalog Number	Comments
Bovine serum albumine	Sigma	A7906	
Adenosine	Sigma	A4036	
Ascorbic acid	Sigma	A0278	
NaCl			Any brand can be used
KCl			Any brand can be used
CaCl ₂			Any brand can be used
MgCl ₂			Any brand can be used
KH ₂ PO ₄			Any brand can be used
HEPES			Any brand can be used
Glucose			Any brand can be used
Type I collagenase	Worthington Biochemical Corp	LS-004196	
DMEM/F-12, HEPES, no phenol red	Gibco-Life Technologies	11039-021	Add to medium : 20% calf serum, gentamicin (50 µg/ml) and fungizone (2.5 µg/ml)
Calf Serum, iron supplemented, from formula-fed calves	Sigma	C8056-500 ml	
1/2 In plastic bushing	Iberville	2704-CP	SKU:1000120918 (Home Depot)
Liquid nitrogen	Linde		
Formalin solution, neutral buffered, 10%	SIGMA	HT501128	
Sterile tweezers			
Sterile scissors			
60 cc syringes	BD Syringe		
Plastic tubing			
Krebs-Ringer-Henseleit stock buffer (KRH)			Prepare stock buffer as following: 25 mM HEPES pH 7.6, 125 mM NaCl, 3.73 mM KCl, 5 mM CaCl ₂ .2H ₂ O, 2.5 mM MgCl ₂ .6H ₂ O, 1 mM K ₂ HPO ₄ . Adjust pH to 7.4.
Krebs-Ringer-Henseleit-Working Buffer (KRH-WB)			Add the following components freshly to KRH buffer: 4% bovine serum albumin, 5 mM glucose, 0.1 µM adenosine, 560 µM ascorbic acid
KRH-WB supplemented with Type I collagenase			Add 350 U/ml of Type I collagenase

T25 unvented cap tissue culture flask	Sarsted or other brand		
6-well tissue culture plate	BD Falcon or other brand		
Microscope cover glass 22x22	Fisherbrand	12-542-B	
Sterile beakers			