

	SOP-BCR-4.19	<b>Preparation of Serum Free Medium (500 mL)</b>	Author: S. Clouthier <i>S. Clouthier</i>	Rev: 1.0	Issued: 09/24/98
			Approved: M. Wicha <i>M. Wicha</i>		Revised: 7/2/12

### 1.0 Purpose

The purpose of SOP 4.19 is to describe how to prepare Serum Free Medium.

### 2.0 Scope

SOP 4.19 is intended to cover all resources, personnel and equipment in the BCR laboratory.

### 3.0 Materials Needed

No.	Name	Amt.	Description	Storage Location
1.0	MEBM	480 mL	Mammary Epithelial Basal Membrane	Cold Storage (026-380C)
2.0	Antibiotic-Antimicotic	5 mL	Antibiotic	Freezer #2 (026-328S-A)
3.0	Gentamycin	50 uL	Antibiotic	Fridge #1 (026-328S-A)
4.0	HC	500 uL	Hydrocortisone	Freezer #2 (026-328S-A)
5.0	Insulin	2.5 mL	Hormone	Freezer #2 (026-328S-A)
6.0	EGF	1 mL	Epidermal Growth Factor	Freezer #3 in box (026-314S-A)
7.0	B27	10 mL	Stem cell supplement	Freezer #2 door (026-328S-A)
8.0	Beta-mercaptoethanol	100 uL	Reducing agent	
9.0	Plasmocin	500 uL	Antibiotic	Freezer #2 (026-328S-A)

### 4.0 Procedure

- 4.1 **Do not add B27** if you are making B27 Free Medium!!
- 4.2 Hydrocortisone use 1 ug/ml stock, beta mercaptoethanol use 1:5000 stock, Plasmocin
- 4.3 Check concentration of Gentamicin (50 mg/mL – 40 uL, 10 mg/mL – 200 uL)
- 4.4 Add all ingredients to MEBM bottle.

### 5.0 Applicable References

- 1.0 SOP 4.5: Preparing HC
- 2.0 SOP 4.6: Preparing Insulin
- 3.0 SOP 4.13: Preparing EGF

### 6.0 Change Description

Revision	Date	Reference	Description of Change
1.0	7/2/12	CL	Added room locations