

	SOP-BCR-4.30	Preparation of Miltenyi gentleMACS dissociator enzymes	Author: S. Clouthier  Tahra Luther Approved: M. Wicha 	Rev: 0	Issued: 4/21/15 Revised:
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1.0 Purpose

The purpose of SOP 4.30 is to provide information on proper procedure for preparing the three enzymes used to dissociate tumors using Miltenyi gentleMACS dissociator.

2.0 Scope

SOP 4.30 is intended to cover all resources, personnel and equipment in the BCR laboratory.

3.0 Materials

No	Name	Description	Location
1.0	RPMI 1640	Gibco cat# 11875-093	Cold storage (026-380C)
2.0	Human tumor digestion kit	Miltenyi cat# 130-095-929	Fridge 1 (026-314S)

4.0 Procedure

- 4.1 Prepare enzyme H by reconstituting lyophilized powder in each of the 2 vials provided in kit with 3 mL of RPMI each. Aliquot into 1.5 mL Eppendorf tubes at 200 uL each tube.
- 4.2 Prepare enzyme R by reconstituting lyophilized powder in the vial labeled "R" with 2.7 mL RPMI. Aliquot into .5 mL Eppendorf tubes at 100 uL each.
- 4.3 Prepare enzyme A by reconstituting lyophilized powder in the vial with 1 mL of Buffer A provided in the kit. Aliquot into .5 mL Eppendorf tubes at 25 uL each.
- 4.4 Store any unused stock in the freezer for up to 6 months.

5.0 Applicable References

6.0 Change Description

Revision	Date	Reference	Description of Change