

	SOP-BCR-4.2	Agarose Plate Preparation	Author: S. Clouthier  Approved: M. Wicha 	Rev: 2.0	Issued: 09/24/98 Revised: 9/17/15
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1.0 Purpose

The purpose of SOP 4.2 is to detail how to prepare Agarose plates.

2.0 Scope

SOP 4.2 is intended to cover all resources, personnel and equipment in the BCR laboratory.

3.0 Materials

No.	Name	Description	Storage Location
1.0	Agarose	Polysaccharide	Chemical Cabinet (026-314S)

4.0 Procedures

4.1 Making Agarose

- Not low melt agarose – ultra pure agarose.
- Use scale with glass sides in 314S.
- In autoclavable bottle, add 1.0 g of agarose per 100 mL of distilled water (1% agarose). Don't add lid too tight.
- Make 500 mL bottle.
- Tape lid with autoclave tape and put in autoclave in pan with water in the bottom. Pour water slowly. Use setting 3 for liquids. Takes about 40 minutes.

4.2 If not making agarose, heat up sterile agarose from fridge in microwave.

4.3 Agarose plates:

- Once warm, agarose can be taken from autoclave/microwave, add 15 mL to each 10 cm (dia) plate using a 25 mL pipette, so bottom is covered easily. Set plates on top of their lids so they can cool. **Don't add lid until agarose has cooled and hardened! (leave the plates at room temp for at least 30 minutes. Adding the lid too soon can cause plates to become contaminated with condensation)**
- Label "Agarose plates", date, initial.
- Store in cold room.
- Don't ever put hands over plate (this will contaminate them)!

5.0 Applicable References

6.0 Change Description

Revision	Date	Reference	Description of Change
1.0	7/13/12	CL	Updated room locations
2.0	9/17/15	TL	Clarified instructions