



VERSION 1

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We use this protocol and it's working

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General Media Recipes: WA, PDA, LB, CMA, V8 V.1

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ABSTRACT

These are current general media recipes for (acidified) water agar, (acidified) potato dextrose agar, LB broth, cornmeal agar, P5ARP/P10ARP, and clarified V8 juice agar.

GUIDELINES

These are media recipes.

SAFETY WARNINGS





Use proper PPE for toxic additives in the P5ARP/P10ARP recipes inside a fume hood. Wear gloves, eye protection, and dust mask. Terraclor May cause sensitization by skin contact. Experimental carcinogen and neoplastigen.

ETHICS STATEMENT

NA

BEFORE START INSTRUCTIONS

Prepare the following:

- Turn on water bath if making more than 3-4 bottles of poured media, **or** if making P₅ARP/P₁₀ARP. Set to  50 °C .
- Prepare hood by spraying surfaces with ethanol and allowing hood to equalize for  00:15:00 minutes.
- Open the necessary quantity of Petri plate bags and stack in hood (500 mL agar ≈ 1.5 sleeves of 90 mm plates, 2 sleeves of 60 mm plates).
- Standardize pH meter, if applicable (aWA and aPDA).
- Thaw any antibiotics, if applicable.

Making Media

30m

1 Select media types from below:

Step 1 includes a Step case.

Water Agar (1.5%)

1/4 PDA

LB Agar

Cornmeal Agar (CMA)

V8 Juice, Clarified Buffered

Preparation

step case

Water Agar (1.5%)

WA and aWA (1.5%)

2 Water Agar preparation:

A	B	C
	500 mL	250 mL
Bottle size (mL)	1000	500

A	B	C
Agar (g)	7.5	3.75
RO Water (mL)	500	250

500 mL ~ 1.5 sleeves of 90 mm plates or 2 sleeves of 60 mm plates.

- 3 Add stir bar and stir contents well.



Place a loose orange cap. Label cap with autoclave tape (1.5% WA) and date.

- 4 Autoclave liquid setting for 20 minutes to sterilize.

Acidified WA (aWA)

- 5 To make acidified WA (aWA):

Adjust to **pH 3.9** after autoclaving with **[M] 10 % (v/v)** lactic acid

- **~0.5 mL** for 500 mL of media

After Pouring Media

- 6 ▪ Mark plates with media color codes.

Color Codes	
Medium	Code
water agar	I
acidulated w/lactic acid	add I after blue line
P ₅ ARP	I
P ₁₀ ARP	II

PDA	I
½ PDA	II
¼ PDA	III
acidulated w/lactic acid	add I after black lines
Cornmeal	I
V8-juice + CaCO ₃	II
5/2 agar	I
Malt agar	II
Luria-Bertani agar	III
+ streptomycin	+
+ chloramphenicol	+
+ kanamycin	+
+ rifampicin	+
+ mefoxin	+
+ ampicillin	+

Date & initial all media on sleeves!

Bennett Lab media color codes.

- Turn off water bath.
- Turn off autoclave, if no longer needed.
- Spray inside of hood with ethanol.
- Close filling port in pH meter, if necessary.
- Tightly cap empty media bottles so agar doesn't dry out.

7 When media has solidified, place in bags labeled with media name, your initials, and date.