

الدرس العملي الثاني

التقويم الحيوي للمبيدات الفطرية والبكتيرية

:

caedo

fungus

fungicides

fungistatic

Sporocides

.Antisporulants

)

(

:

:

Natural media :

Potato Dextrose Agar (PDA), Potato Plug , Rice Grain , Apple Juice , Hemp Seed , Malt Extract Agar , Corn Meal Agar

			PDA	
			200	
			20	
15	0.5		20	15
	.(PD)			

Synthetic Media :

Czapek's solution 1

Sodium nitrate	2.0	gm
Potassium monohydrogen phosphate	1.0	gm
Magnesium sulphate	0.5	gm
Potassium chloride	0.5	gm
Ferrous sulphate	0.01	gm
Sucrose	30.0	gm
Distilled water	1.0	L

% 2 1 ,5
 % 2.5-2
 15 0.5

121

Synthetic acid media : 2

Magnesium sulphate	3.0	gm
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Potassium dihydrogen phosphate	1.0	gm
Peptone	5.0	gm
Glucose	10.0	gm
Agar	25.0	gm
Distilled water	1.0	L

4 p H 50 40

Semi Synthetic Media :

Malt Czapek 's Agar : - 1

% 2

Yeast Extract Czapek's Agar : - 2

100

% 1

30

2

400

. % 1

Pythium , Phytophthora , Colletotrichum

Leonian's Solution Agar - 3

Potassium dihydrogen phosphate	1.250	Gm
Magnesium sulphate	0.625	Gm
Peptone	0.625	Gm
Maltose	6.250	Gm
Malt extract	6.250	Gm
Agar	20.00	Gm
Distilled water	1.0	L

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-:

Nutrient Broth Agar Media - 1

5

10

2

25

3

7,2

20

1,5

Potato - Dextrose - Agar (PDA) - 2

رابعاً : تعقيم الأدوات والبيئات

- 1 :

6 180

- 2 :

Pressure (bar)	Temperature (°C)
0.5	112
1.0	121
1.5	128
2.0	135

- 3 :

- 4 :

- 5 :

٪ 5

خامساً: طرق التعبير عن التركيزات للمبيدات

" Molar " M - 1

"

Mole ()

$$M = 1000 \text{ mM} = 10^6 \text{ uM}$$

(%)

- 2

"

100

%0.5

100

, 5

100

" Part per million " ppm

- 3

⁶10

1

1

⁶10

($\mu\text{g/g}$) /

- 4

/

"

:

- 5

45

/

100 /

,5

/

100 / 250

/ 1