

ProtoCOL 3

Antibiotic Susceptibility Batch Set-Up - Quick Guide

Start ProtoCOL 3 software

1

Enter



➔ Log onto ProtoCOL 3

Position plate

2

- ➔ Insert the plate holder, ensuring the plate holder that gives the best contrast between the zone and background is used
- ➔ Place plate onto plate holder

Capture image

3

Click



- ➔ Select the image tab and check the live box

Slide



- ➔ Adjust the exposure by increasing/decreasing the sliding scale

Click



- ➔ Capture image

Create batch

4

Click



- ➔ Click New Batch

Plate configuration

5

Select



- ➔ Select Plate Configuration to set plate size and sample volume. Default are circular plate, 90mm, sample volume 1mL. Change if necessary

Choose an application

6

Select

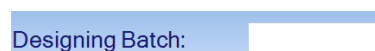


- ➔ Select Antibiotic Susceptibility

Name the batch

7

Enter



- ➔ Name the batch

8

Zone classification

Select **Zone Classification**

Single Zone

Ring Add Centre

Grid

Maximum Zone Size

Move Individual Zones

- ➔ Select Zone Classification tab
- ➔ Select type of zone frame and the number of zones required
- ➔ Position the grid directly over the zones. To move individual measuring circles check the box and setting circle to the maximum zone size
- ➔ Zone sizes can be adjusted using the Maximum Zone Size slider. Ensure the zone size is larger than the zones present on the plate. The zone size graticule can appear larger than the plate, this is no issue for the software to correctly measure
- ➔ Zones can also be named on this page by clicking Rename Zones
- ➔ Once satisfied with the zone selection, press Next

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Discs/wells present

No Discs/Wells

Disc or Well in each zone

Set Disc Diameter (mm)

- ➔ Indicate whether discs or wells are present
- ➔ If a well or disc is present specify the size of disc/well by entering the size directly into the box or by clicking on the text box and dragging the circle just outside the edge of the well or disc
- ➔ Click Next

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Identify zones

Sample Disc Colour

Sample Zone/Edge Colour

Sample Background Colour

- ➔ From Image click on an area of the disc or well to pick colour, repeat for zone and the background. Be sure to take representative samples from across the plate
- ➔ Click Next

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Choose whether to allow statistics

Select the Allow statistics to enable the use of statistics for this batch

Allow statistics

12

Allow Breakpoints and Expert Rules

Select allow breakpoints and expert rules to enable their use in this batch

Allow Breakpoints and Expert rules

EUCAST

CLSI

Manual



This step allows you to choose between EUCAST / CLSI guidelines or to use manual breakpoint entries

In EUCAST and CLSI batches, manual entries can be added.

Manual batches are for manual entries only

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Review zone measurements

Click 



If all zones are detected click Finish. If not, repeat step 8 and ensure all of the zones are central

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Measure

Click 



Select Measure tab

Click 



Test Measure Plate

Click 



Assign a plate ID



Accept batch

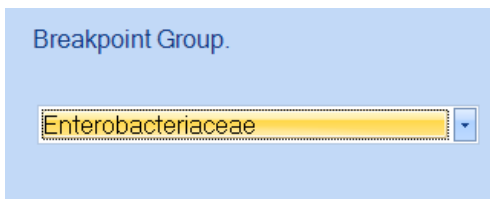
15

Measure Plate



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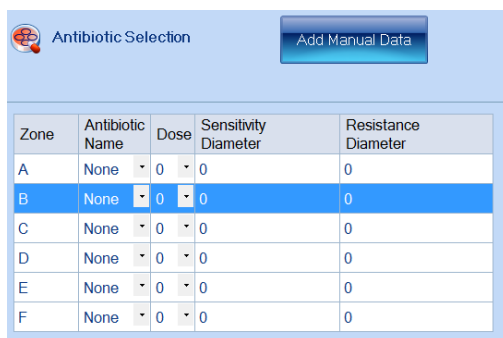
Choose breakpoint group



This step allows you to choose the organism/group of interest from a drop-down list

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Select antibiotic information



Depending on your selection in step 12, either select EUCAST/CLSI antibiotic information from the dropdown menu or enter information manually

Press FINISH

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View AST data in the results tab

Plate Name	User	Flags	Created	Comments /...				
2	shauna	C	06/08/2018 13:43:49					
Zone...	Antibiotic Name	Antibiotic...	Brea...	Zone Di...	Antibiotic Su...	Breakpoint Organism	Sensitivit...	Resistan...
A	Ampicillin	10	No	10.88	Resistant	Enterobacteriaceae	14	18
B	Gentamycin	5	No	14.40	Resistant	Enterobacteriaceae	16	20
C	Trimethoprim-sulfamethoxazole	10	No	12.65	Resistant	Enterobacteriaceae	11	19
D	aztreonam	5	No	11.25	Resistant	Enterobacteriaceae	21	24
E	Gentamycin	5	No	15.49	Resistant	Enterobacteriaceae	16	20
F	cefepime	10	No	13.63	Resistant	Enterobacteriaceae	12	14

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