

# ChromaZona

## Antibiotic Susceptibility Batch Set Up - Quick Guide

1

### Start ChromaZona software

Enter



➔ Log onto ChromaZona

2

### Position plate

- ➔ 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

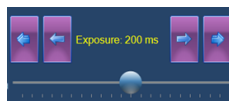
3

### Capture image

Click



Slide



Click



- ➔ Select the image tab and check the live box
- ➔ Adjust the exposure by increasing/decreasing the sliding scale
- ➔ Capture image

4

### Create batch

Click



➔ Click New Batch

5

### Plate configuration

Select



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

6

### Choose an application

Select



➔ Select Antibiotic Susceptibility

7

### Name the batch

Enter



➔ Name the batch

8

## Zone classification

Select



☐ Single Zone

☒ Ring  ☐ Add Centre

☐ Grid

Maximum Zone Size

☐ Move Individual Zones

[Rename 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

9

## 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 enter the size of disc/well by entering the size directly into the box or by clicking on the text box and drag the circle to the edge of the well or disc
- ➔ Click Next

10

## Identify zones

Sample

Sample

Sample

- ➔ 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

11

## 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

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

13

## Review zone measurements

Click

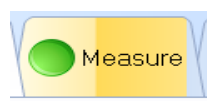


If all zones are detected click Finish, if not repeat step 8 and ensure all of the zones are central

14

## Measure

Click



Select Measure tab

Click



Test Measure Plate

Click



Assign a plate ID

Accept batch

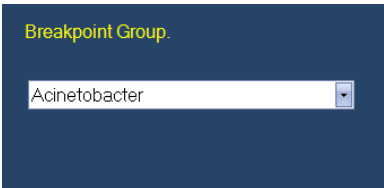
# Measure Plate

15



# Choose breakpoint group

16



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

# Select antibiotic information

17

Zone	Manual	Antibiotic Name	Dose	Sensitivity Diameter	Resistance Diameter
A	<input checked="" type="checkbox"/>	Amikacin	30	19	17
B	<input type="checkbox"/>	Amikacin	30	19	17
C	<input type="checkbox"/>	Amikacin	30	19	17
D	<input type="checkbox"/>	Amikacin	30	19	17
E	<input type="checkbox"/>	Amikacin	30	19	17
F	<input type="checkbox"/>	Amikacin	30	19	17

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

Press FINISH

# View AST data in the results tab

18

Plate Name	User	Flags	Created	Comments /...	Expert Rule Organism				
12	shauna		04/09/2018 11:42:31		None				
Zone Name	Antibiotic Name	Antibiotic...	Breakpoi...	Zone...	Antibiotic S...	Breakpoint Organism	Sensitivit...	Resistan...	
A	Ciprofloxacin	5	Yes	20.30	Resistant	Acinetobacter	21	21	
B	Amikacin	30	No	19.35	Sensitive	Acinetobacter	19	17	
C	Gentamicin	10	Yes	18.57	Sensitive	Acinetobacter	17	17	
D	Meropenem	10	No	23.46	Sensitive	Acinetobacter	21	15	
E	Trimethoprim/sul famethoxazole	1.25-23.75	Yes	22.63	Sensitive	Acinetobacter	14	11	
F	Imipenem	10	Yes	14.75	Resistant	Acinetobacter	23	17	

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