

# ASAP: Dengue, Zika and West Nile NS2B3: First round crystallization

PAGE22-01756

Author: Koekemoer, Lizbe

Date Started: 2022-Oct-19

Experiment Started:

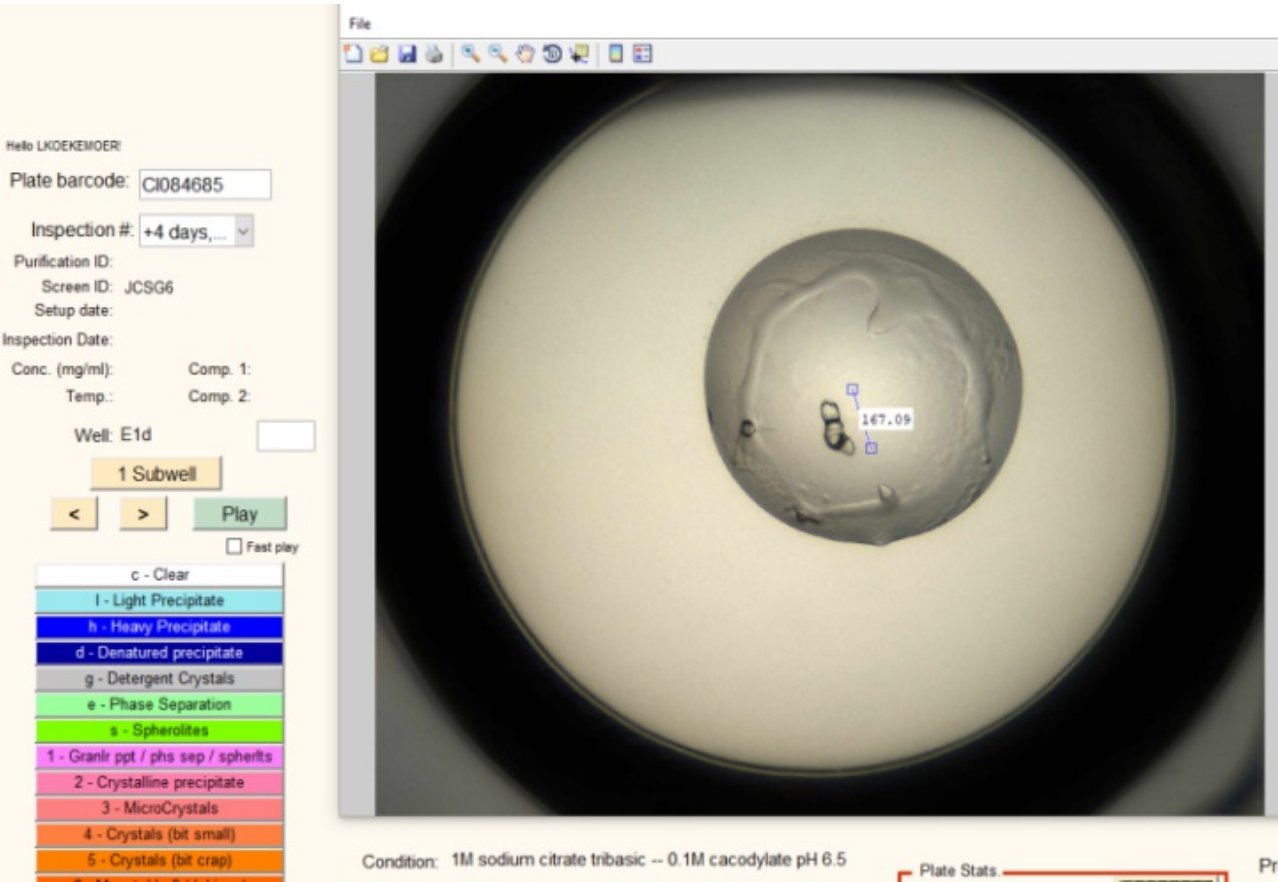
Projects: Crystallization

Related Pages: PAGE22-01614

Referenced by:

Tags:

CI048685 - West Nile



CI084589 - West Nile

Helo LKOEKEMOER

Plate barcode: CI084589

Inspection #: +4 days...

Purification ID:

Screen ID: Morpheus-20180831

Setup date:

Inspection Date:

Conc. (mg/ml):

Comp. 1:

Temp.:

Comp. 2:

Well: E12d

1 Subwell

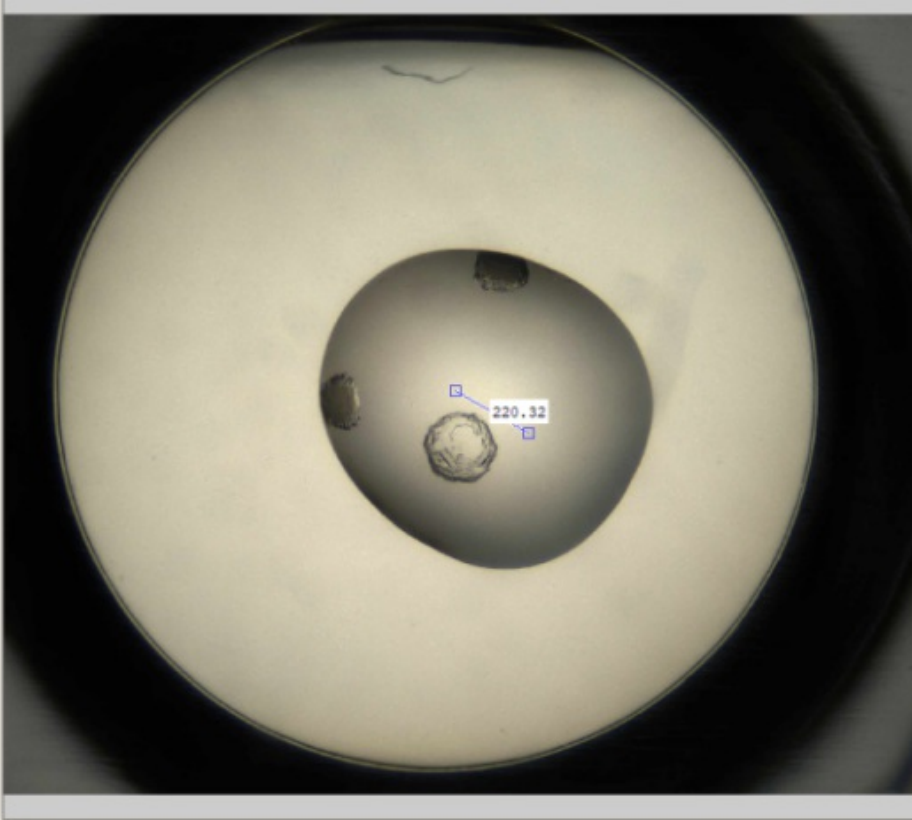
<

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Play

☐ Fast play

- c - Clear
- l - Light Precipitate
- h - Heavy Precipitate
- d - Denatured precipitate
- g - Detergent Crystals
- e - Phase Separation
- s - Spherulites
- 1 - Granular ppt / phs sep / spherites
- 2 - Crystalline precipitate
- 3 - MicroCrystals
- 4 - Crystals (bit small)
- 5 - Crystals (bit crap)
- 6 - Mountable 6 (dubious)



Condition: 0.12M Ethylene glycols-0.1M Buffer System 3  
pH8.5-50% v/v Precipitant Mix 4

Plate Stats

Drop Qual: 10

CI084589 - West Nile

Helo LKOEKEMOER

Plate barcode: CI084589

Inspection #: +4 days...

Purification ID:

Screen ID: Morpheus-20180831

Setup date:

Inspection Date:

Conc. (mg/ml):

Comp. 1:

Temp.:

Comp. 2:

Well: G12c

1 Subwell

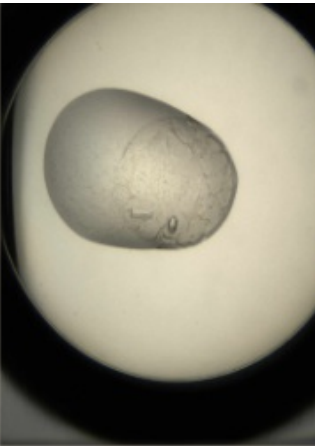
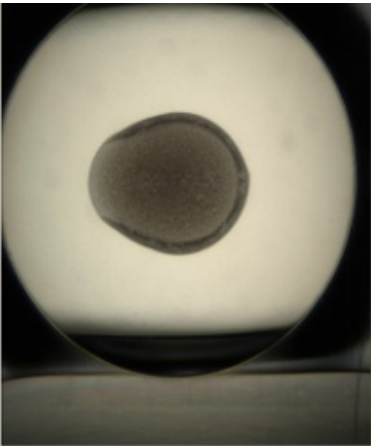
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Play

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- d - Denatured precipitate
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Condition: 0.1M Carboxylic acids-0.1M Buffer System 3  
pH8.5-50% v/v Precipitant Mix 4

Plate Stats

Drop Qual: 10

Projects: G001MNVN528

☐ Sort by last inspection date

CI084681 - Dengue

Hello LKOEKEMOER!

Plate barcode: CI084681

Inspection #: +7 days,...

Purification ID:

Screen ID: LFS6

Setup date:

Inspection Date:

Conc. (mg/ml): Comp. 1:

Temp.: Comp. 2:

Well: C12a

1 Subwell

<

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Play

☒ Fast play

c - Clear

l - Light Precipitate

h - Heavy Precipitate

d - Denatured precipitate

g - Detergent Crystals

e - Phase Separation

s - Spherulites

1 - Granular ppt / phs sep / spherulites

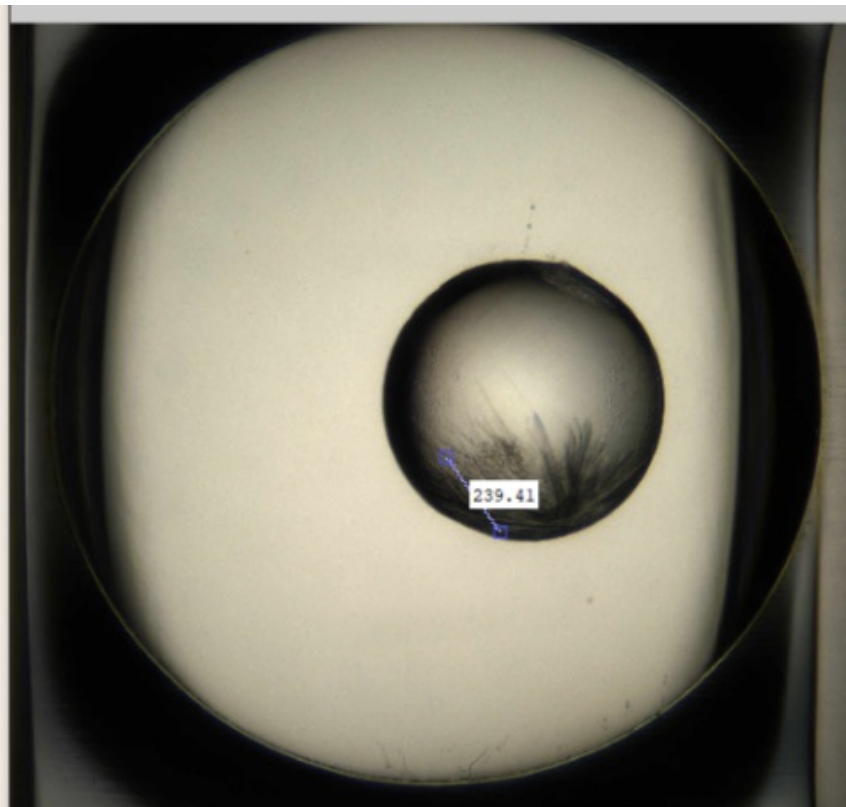
2 - Crystalline precipitate

3 - MicroCrystals

4 - Crystals (bit small)

5 - Crystals (bit crap)

6 - Mountable 6 (dubious)



Condition: 20% PEG6000 -- 10% ethylene glycol -- 0.1M  
HEPES pH 7.0 -- 0.01M zinc chloride

Plate Stats.  
Drop Q

**CI084681 - Dengue**

Hello LKOEKEMOER!

Plate barcode:

Inspection #:

Purification ID:

Screen ID: LFS6

Setup date:

Inspection Date:

Conc. (mg/ml):      Comp. 1:

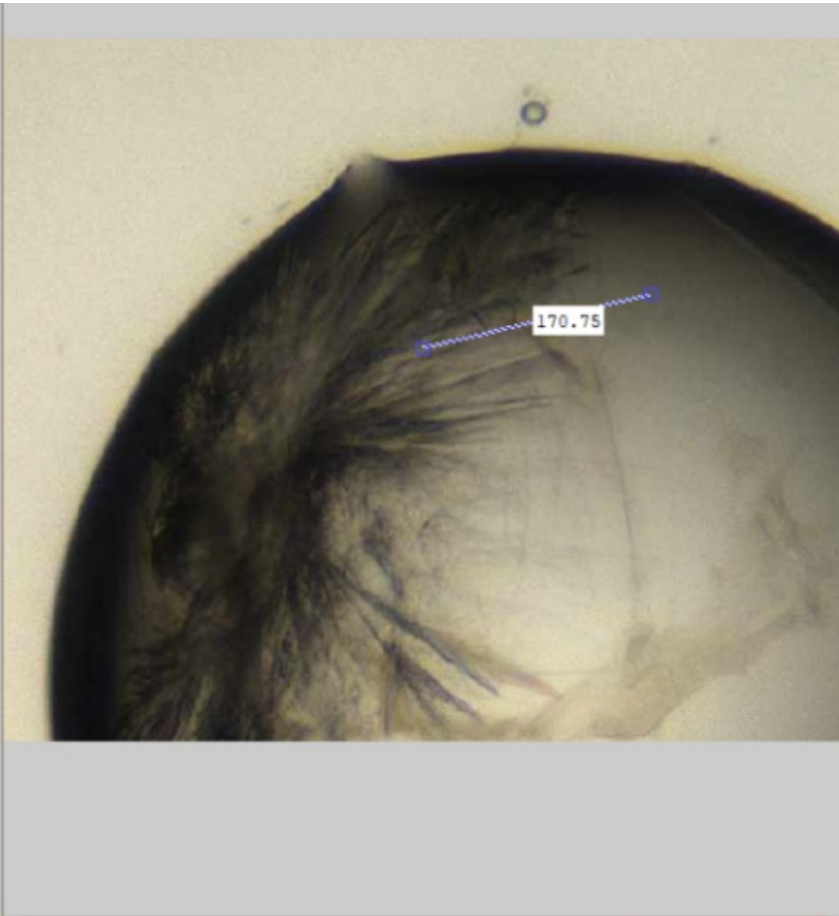
Temp.:              Comp. 2:

Well: D12a

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☒ Fast play

c - Clear
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d - Denatured precipitate
g - Detergent Crystals
e - Phase Separation
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1 - Granular ppt / phs sep / spherites
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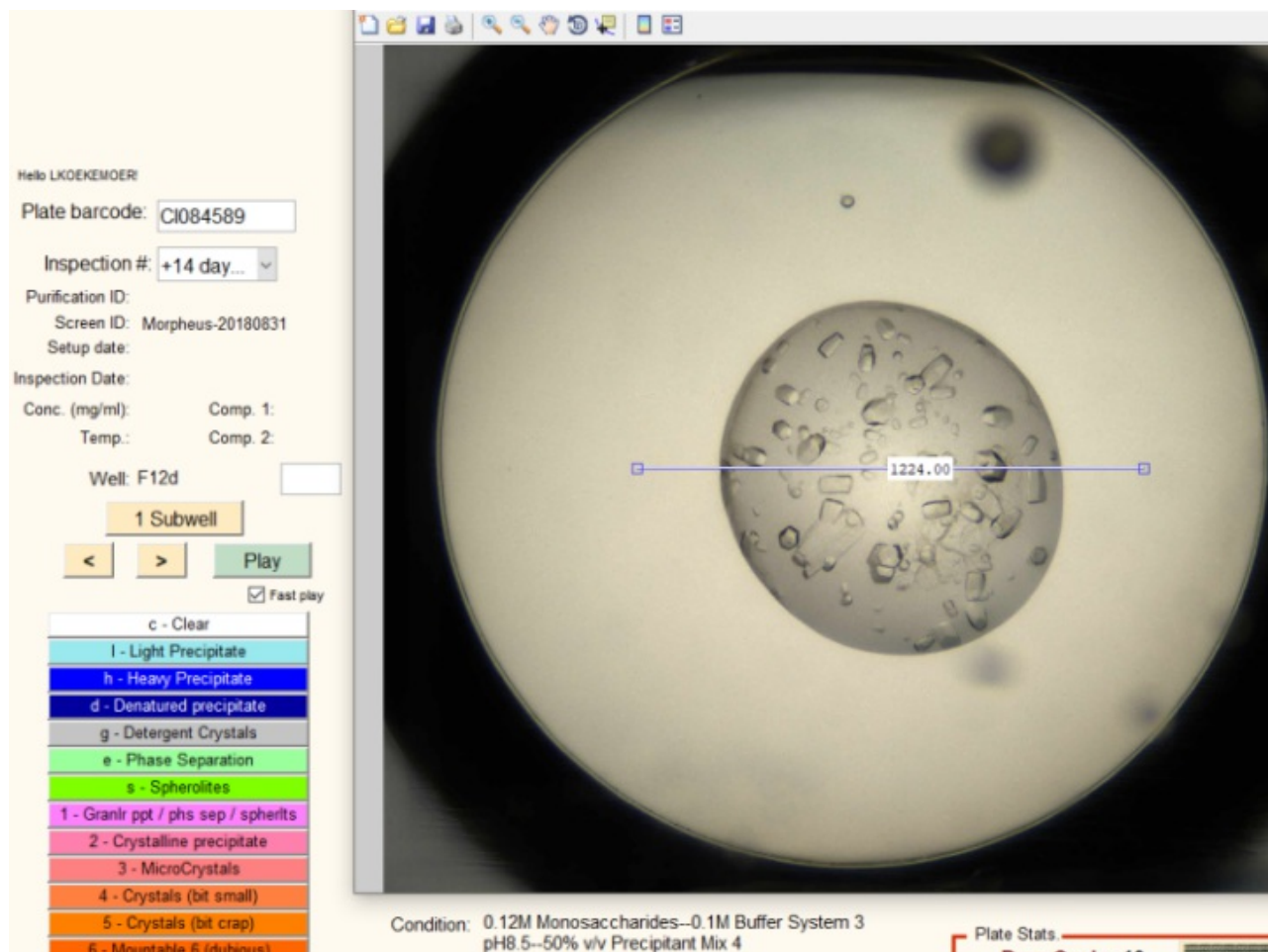
Condition: 20% PEG6000 -- 10% ethylene glycol -- 0.1M tris  
pH 7.5 -- 0.01M zinc chloride

Plate S

Title missing - double click to edit

West Nile dead 94mg/ml	
LFSÂ	conc OK
JCSG	bad precipitation
Morpheus	too conc
Zika dead 33 mg/ml	
LFSÂ	bad precipitation
Morpheus	bad precipitation
Zika alive 90 mg/ml	
LFSÂ	conc OK
JCSG	bad precipitation
Morpheus	bad precipitation
Dengue dead 96 mg/ml	
LFSÂ	bad precipitation
JCSG	bad precipitation
Morpheus	bad precipitation
Dengue alive 49 mg/ml	
LFSÂ	bad precipitation
JCSG	bad precipitation
Morpheus	bad precipitation





#### rMMS: 31 October 2022

Dilute remaining enzymes to 10 mg/ml

Use undiluted seeds to do rMMS experiments in coarse screens where crystals were first observed.

For Zika use a mixtures of the remaining West Nile Morpheus seeds

#### Crystal comments

CI084800	WNV	Morpheus	10 mg/ml seeded		
CI084801	WNV	Morpheus	10 mg/ml seeded	protein too diluted	
CI084802	WNV	Morpheus	10 mg/ml seeded	protein too diluted	
CI084689	WNV	JCSG		looked like plate dropped	
CI084803	Zika	Morpheus		protein too diluted	
CI084581	Zika	BCS		not enough precipitation	UV image
CI084583	Zika	HIN		redo plate	
CI084804	Dengue	LFS6		lots of trees	
CI084805	Dengue	LFS6		lots of trees	
CI084850	Dengue	BCS3		maybe not enough precipitation	
CI084854	Dengue	HIN3		something weird H9	