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NPTEL

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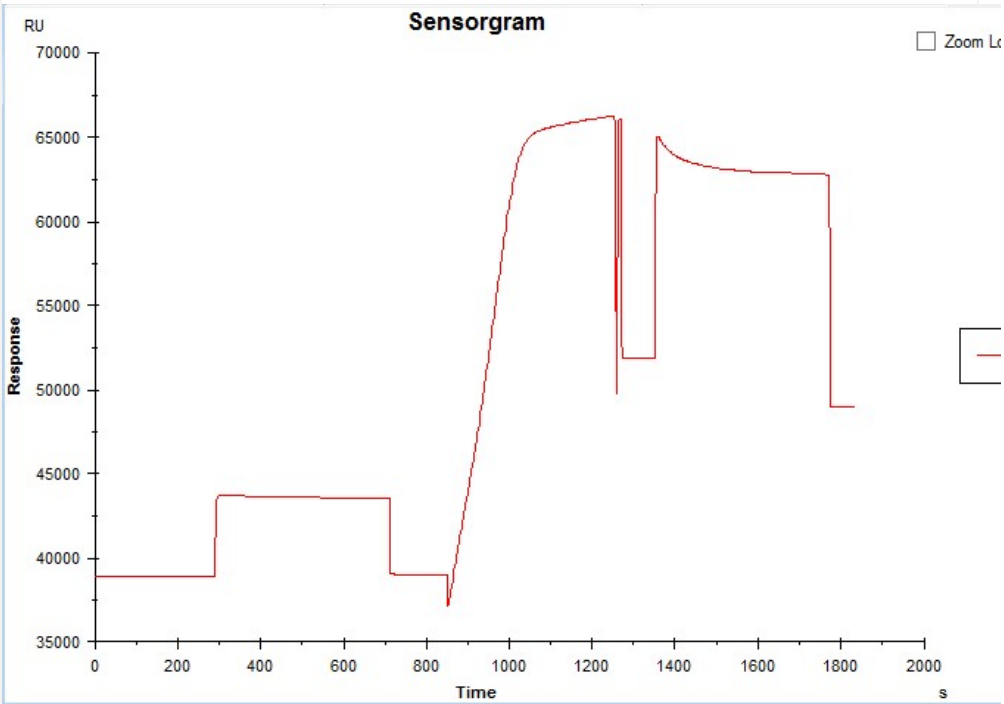
Unit 4 - Week 3

Week 3, Assignment 3

The due date for submitting this assignment has passed. **Due on 2018-09-19, 23:59 IST.**
As per our records you have not submitted this assignment.

1) Based on Figure shown below , what is the approximate amount of ligand immobilized? ***1 point***

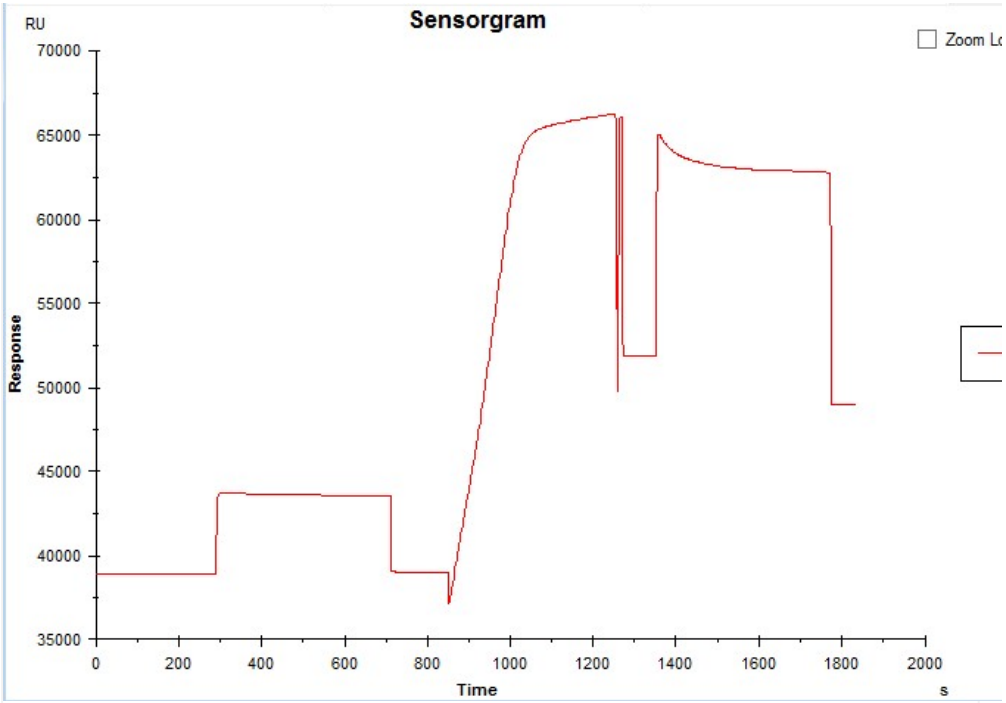


- 8000 RU
- 9000 RU
- 10000 RU
- 11000 RU

No, the answer is incorrect.
Score: 0

Accepted Answers:
10000 RU

2) Based on Figure shown below, the EDC/NHS activation takes place between which time points? ***1 point***

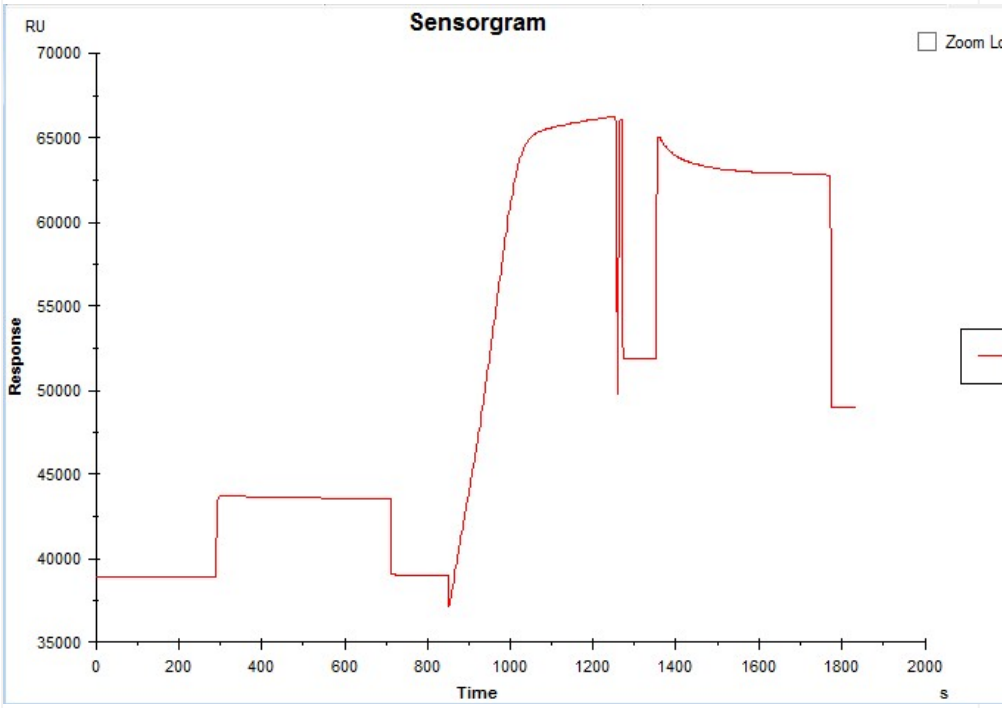


- 200 to 800 seconds
- 800 to 1300 seconds
- 800 to 1900 seconds
- 1300 to 1900 seconds

No, the answer is incorrect.
Score: 0

Accepted Answers:
200 to 800 seconds

3) Based on Figure shown below , the binding of the ligand to the chip takes place between which time points? ***1 point***



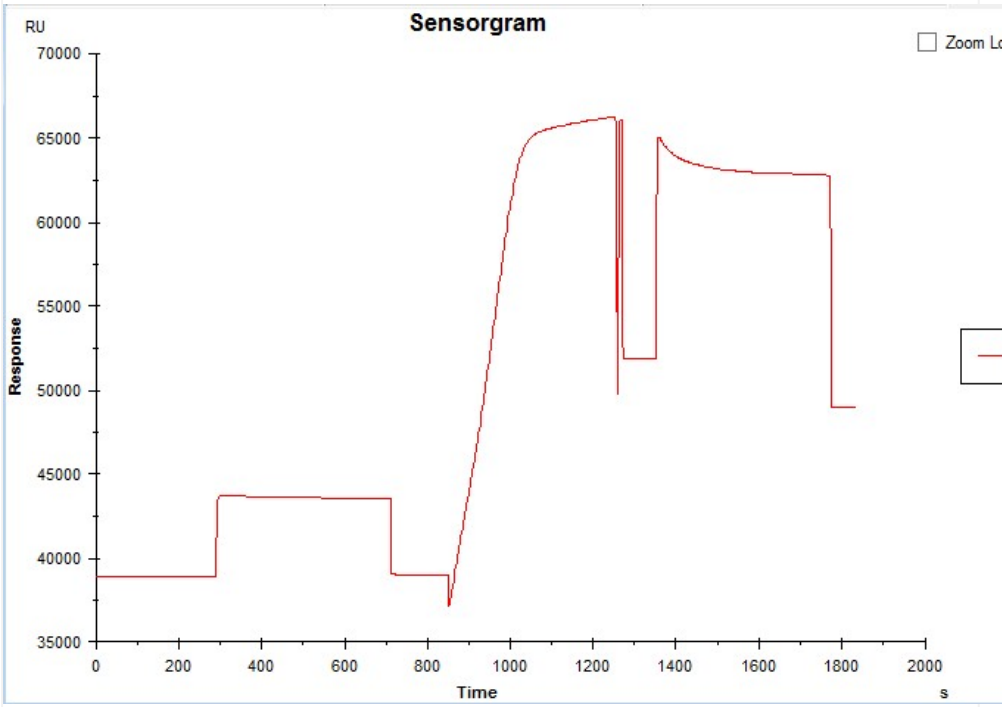
- 200 to 800 seconds

- 800 to 1300 seconds
- 800 to 1900 seconds
- 1300 to 1900 seconds

No, the answer is incorrect.
Score: 0

Accepted Answers:
800 to 1300 seconds

4) Based on same Figure shown below , the Ethanolamine deactivation takes place between which time points? ***1 point***

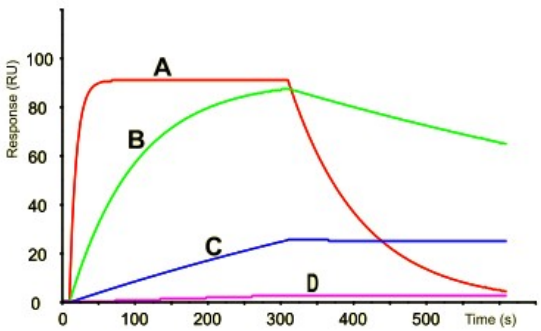


- 200 to 800 seconds
- 800 to 1300 seconds
- 800 to 1900 seconds
- 1300 to 1900 seconds

No, the answer is incorrect.
Score: 0

Accepted Answers:
1300 to 1900 seconds

5) Based on Figure shown below , which curve has the fastest association rate constant? ***1 point***



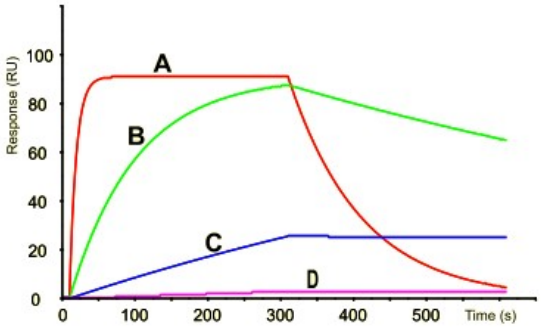
- Curve A

- Curve B
- Cannot determine without the analyte concentration
- Cannot determine without the Rmax of the system

No, the answer is incorrect.
Score: 0

Accepted Answers:
Cannot determine without the analyte concentration

6) Based on Figure shown below, which curve has the fastest dissociation rate constant? ***1 point***

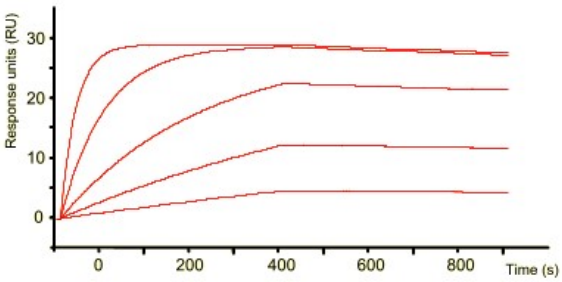


- Curve A
- Curve B
- Cannot determine without the analyte concentration
- Cannot determine without the Rmax of the system

No, the answer is incorrect.
Score: 0

Accepted Answers:
Curve A

7) Based on Figure shown below , what should be optimized in the assay? ***1 point***

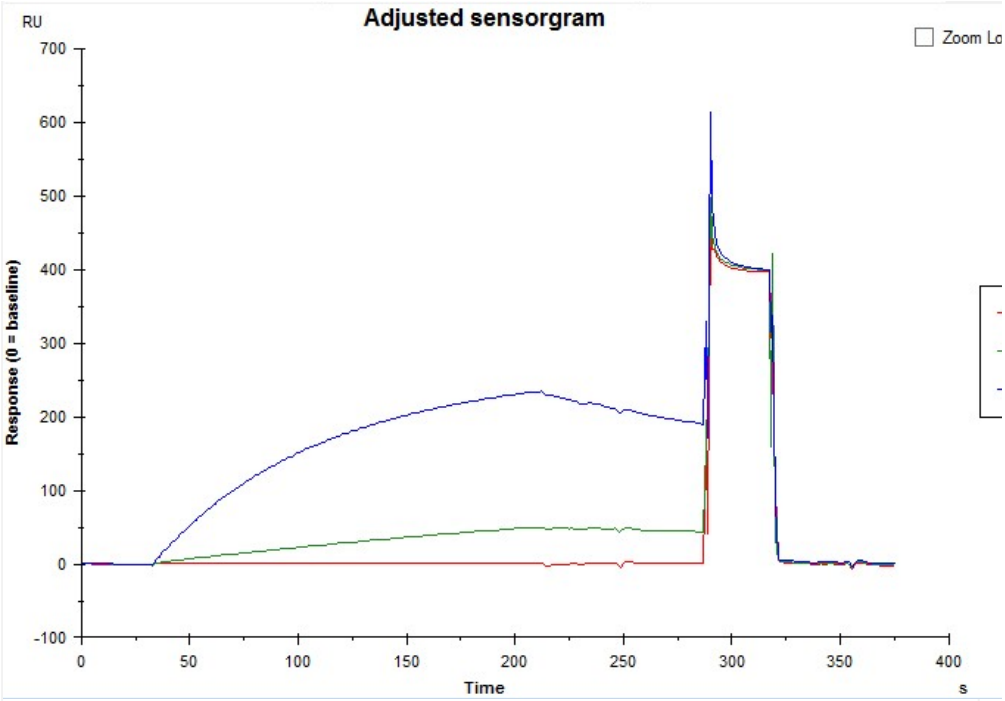


- Extend the association time
- Extend the dissociation time
- Use higher concentrations of the analyte
- Use lower concentrations of the analyte

No, the answer is incorrect.
Score: 0

Accepted Answers:
Extend the dissociation time

8) Based on Figure shown below, the association phase takes place between which time points? ***1 point***

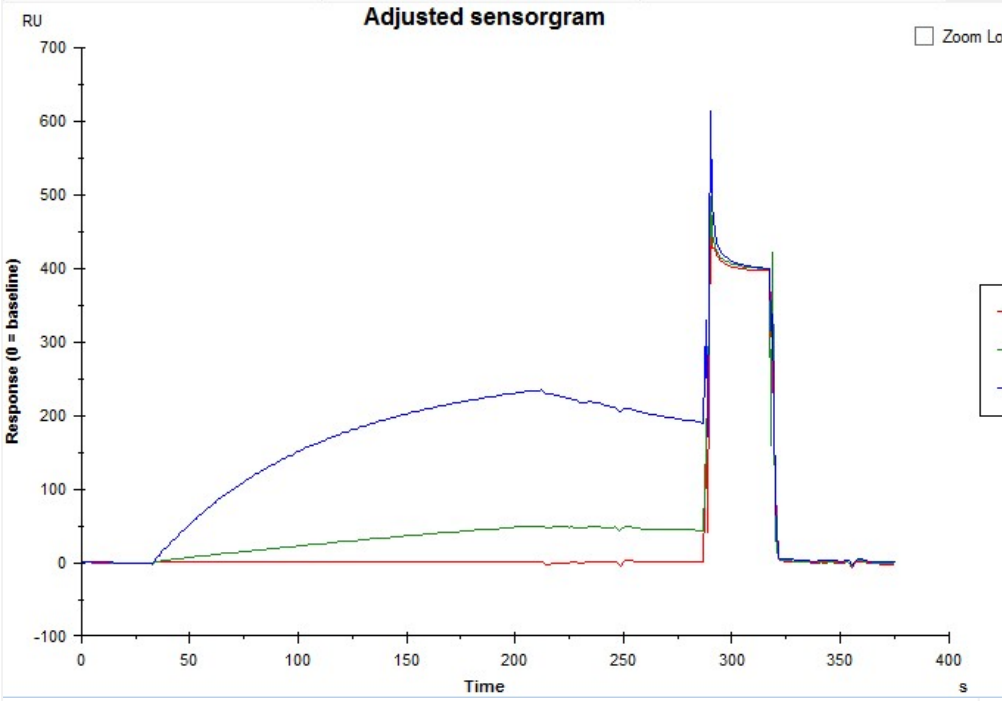


- 30 to 210 seconds
- 210 to 280 seconds
- 210 to 400 seconds
- 280 to 325 seconds

No, the answer is incorrect.
Score: 0

Accepted Answers:
30 to 210 seconds

9) Based on Figure shown below, the dissociation phase takes place between which time points? ***1 point***



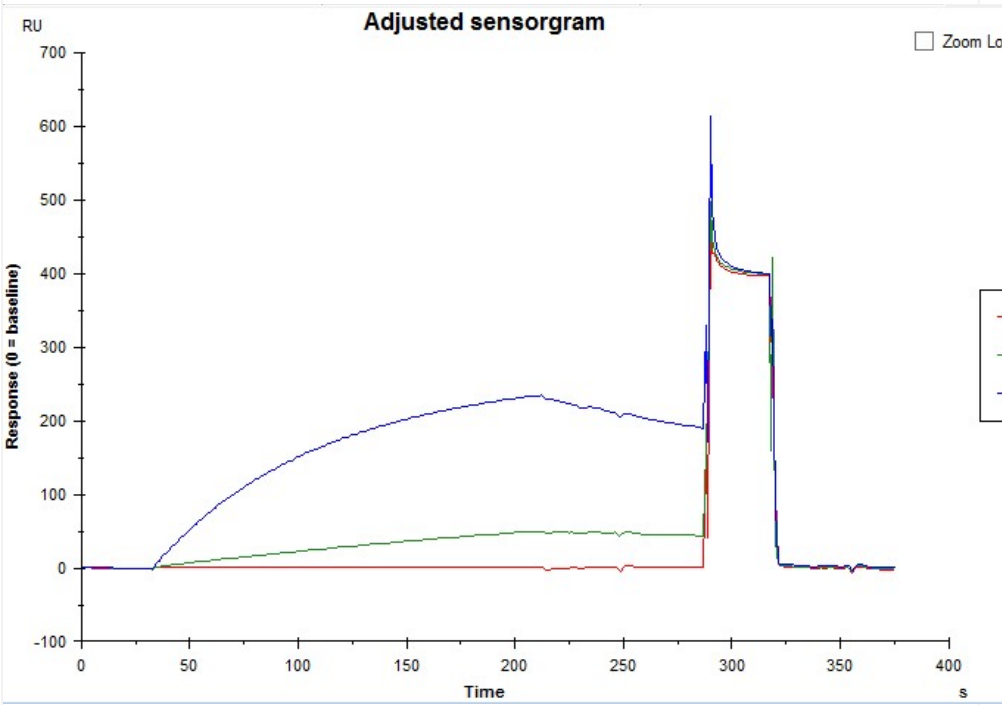
- 30 to 210 seconds
- 210 to 280 seconds

- 210 to 400 seconds
- 280 to 325 seconds

No, the answer is incorrect.
Score: 0

Accepted Answers:
210 to 280 seconds

10) Based on same Figure shown below, the regeneration phase takes place between which time points? ***1 point***



- 30 to 210 seconds
- 210 to 280 seconds
- 210 to 400 seconds
- 280 to 325 seconds

No, the answer is incorrect.
Score: 0

Accepted Answers:
280 to 325 seconds

Previous Page End