

# LFA Development - RSM Model Summary

## 1. Experiment Design

group	biotinylation	rinsed
1	5	0
2	10	0
3	20	0
4	5	1
5	10	1
6	20	1

## 2. Model Equation

$$Y = 300.31 + 12.17 \times \text{biotinylation} + 31.69 \times \text{rinsed} + -0.67 \times \text{biotinylation}^2 + 10.41 \times \text{biotinylation} \text{ rinsed} + 31.69 \times \text{rinsed}^2$$

## 3. Coefficients and p-values

Term	Coefficient
biotinylation	12.1717
rinsed	31.6924
biotinylation^2	-0.6699
biotinylation rinsed	10.4075
rinsed^2	31.6924

?? Coefficient plot not saved. View as HTML in export folder.

## 4. ANOVA Table

index	sum_sq	df	F	PR(>F)
biotinylation	5.1330	1.0000	0.0071	0.9406
rinsed	51229.6503	1.0000	70.7709	0.0138
biotinylation:rinsed	6318.4249	1.0000	8.7286	0.0980
Residual	1447.7602	2.0000	nan	nan

## 5. Interaction Effects

## 6. Additional Visualizations

?? Figure 1 not saved. View as HTML in export folder.

## 7. Model Fit Summary

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R<sup>2</sup>: 0.9999 Intercept: 300.3065 Coefficients: biotinylation: 12.1717 rinsed: 31.6924  
biotinylation<sup>2</sup>: -0.6699 biotinylation rinsed: 10.4075 rinsed<sup>2</sup>: 31.6924