FCS Test Report

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Data Summary

Aggregated data, termed as whole cells (mother+buds), exclude S phase due to only 1 observation.

summary(rpl) CellCyclePhase Morphology Density ## G1 :8 whole cell:21 Min. : 4598 G2 :6 1st Qu.: 5994 ## ## Median: 6454 mitosis:7 ## Mean : 6725 ## 3rd Qu.: 7215 ## Max. :10537

ANOVA

The following is the result of ANOVA where it is demonstrated that there is no significant difference between groups.

```
res.aov <- aov(Density ~ CellCyclePhase, data = rpl)
summary(res.aov)

## Df Sum Sq Mean Sq F value Pr(>F)
## CellCyclePhase 2 108063 54031 0.026 0.975
## Residuals 18 37902777 2105710
```

Validity Check

Normality test, confirmed by Shapiro-Wilk test of normality.

```
#plot(res.aov, 2)
aov_residuals <- residuals(object = res.aov)
shapiro.test(x = aov_residuals)

##
## Shapiro-Wilk normality test
##
## data: aov_residuals
## W = 0.91632, p-value = 0.07326</pre>
```