

# 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
## mitosis:7                      Median : 6454
##                               Mean    : 6725
##                               3rd Qu.: 7215
##                               Max.    :10537
```

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## 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
```

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## 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
```