Plate#9

Two-Sample T-Test and CI: Cell number Treatment Plate#9

**Method**

|  |
| --- |
| μ₁: population mean of Cell number 14 when Treatment Plate#9 = LDH1 |
| µ₂: population mean of Cell number 14 when Treatment Plate#9 = Uncontrolled |
| Difference: μ₁ - µ₂ |

Equal variances are not assumed for this analysis.

**Descriptive Statistics: Cell number Plate#9**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Treatment Plate#9** | **N** | **Mean** | **StDev** | **SE Mean** |
| LDH1 | 30 | 683610 | 60962 | 11130 |
| Uncontrolled | 30 | 402718 | 267737 | 48882 |

**Estimation for Difference**

|  |  |
| --- | --- |
| **Difference** | **95% CI for****Difference** |
| 280892 | (178645, 383139) |

**Test**

|  |  |
| --- | --- |
| Null hypothesis | H₀: μ₁ - µ₂ = 0 |
| Alternative hypothesis | H₁: μ₁ - µ₂ ≠ 0 |

|  |  |  |
| --- | --- | --- |
| **T-Value** | **DF** | **P-Value** |
| 5.60 | 31 | 0.000 |

Plate#10

Two-Sample T-Test and CI: Cell number, Treatment Plate#10

**Method**

|  |
| --- |
| μ₁: population mean of Cell number Plate#10 when Treatment Plate#10 = LDH1 |
| µ₂: population mean of Cell number Plate#10 when Treatment Plate#10 = Uncontrolled |
| Difference: μ₁ - µ₂ |

Equal variances are not assumed for this analysis.

**Descriptive Statistics: Cell number Plate#10**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Treatment Plate#10** | **N** | **Mean** | **StDev** | **SE Mean** |
| LDH1 | 30 | 680572 | 125079 | 22836 |
| Uncontrolled | 30 | 339828 | 188551 | 34425 |

**Estimation for Difference**

|  |  |
| --- | --- |
| **Difference** | **95% CI for****Difference** |
| 340743 | (257769, 423718) |

**Test**

|  |  |
| --- | --- |
| Null hypothesis | H₀: μ₁ - µ₂ = 0 |
| Alternative hypothesis | H₁: μ₁ - µ₂ ≠ 0 |

|  |  |  |
| --- | --- | --- |
| **T-Value** | **DF** | **P-Value** |
| 8.25 | 50 | 0.000  |

Plate#11

Two-Sample T-Test and CI: Cell number, Treatment

**Method**

|  |
| --- |
| μ₁: population mean of Cell number Plate#11 when Treatment = LDH1 |
| µ₂: population mean of Cell number Plate#11 when Treatment = Uncontrolled |
| Difference: μ₁ - µ₂ |

Equal variances are not assumed for this analysis.

**Descriptive Statistics: Cell number Plate#11**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Treatment** | **N** | **Mean** | **StDev** | **SE Mean** |
| LDH1 | 30 | 712510 | 85435 | 15598 |
| Uncontrolled | 30 | 484096 | 152701 | 27879 |

**Estimation for Difference**

|  |  |
| --- | --- |
| **Difference** | **95% CI forDifference** |
| 228413 | (164070, 292756) |

**Test**

|  |  |
| --- | --- |
| Null hypothesis | H₀: μ₁ - µ₂ = 0 |
| Alternative hypothesis | H₁: μ₁ - µ₂ ≠ 0 |

|  |  |  |
| --- | --- | --- |
| **T-Value** | **DF** | **P-Value** |
| 7.15 | 45 | 0.000 |

Plate#12

Two-Sample T-Test and CI: Cell number Plate#12, Treatment Plate#12

**Method**

|  |
| --- |
| μ₁: population mean of Cell number Plate#12 when Treatment Plate#12 = LDH1 |
| µ₂: population mean of Cell number Plate#12 when Treatment Plate#12 = Uncontrolled |
| Difference: μ₁ - µ₂ |

Equal variances are not assumed for this analysis.

**Descriptive Statistics: Cell number Plate#12**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Treatment Plate#12** | **N** | **Mean** | **StDev** | **SE Mean** |
| LDH1 | 30 | 689948 | 80518 | 14701 |
| Uncontrolled | 30 | 483005 | 160973 | 29390 |

**Estimation for Difference**

|  |  |
| --- | --- |
| **Difference** | **95% CI forDifference** |
| 206944 | (140627, 273260) |

**Test**

|  |  |
| --- | --- |
| Null hypothesis | H₀: μ₁ - µ₂ = 0 |
| Alternative hypothesis | H₁: μ₁ - µ₂ ≠ 0 |

|  |  |  |
| --- | --- | --- |
| **T-Value** | **DF** | **P-Value** |
| 6.30 | 42 | 0.000 |

Plate#13

Two-Sample T-Test and CI: Cell number Plate#13, Treatment Plate#13

**Method**

|  |
| --- |
| μ₁: population mean of Cell number Plate#13 when Treatment Plate#13 = LDH1 |
| µ₂: population mean of Cell number Plate#13 when Treatment Plate#13 = Uncontrolled |
| Difference: μ₁ - µ₂ |

Equal variances are not assumed for this analysis.

**Descriptive Statistics: Cell number Plate#13**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Treatment Plate#13** | **N** | **Mean** | **StDev** | **SE Mean** |
| LDH1 | 30 | 680316 | 105200 | 19207 |
| Uncontrolled | 30 | 581793 | 129357 | 23617 |

**Estimation for Difference**

|  |  |
| --- | --- |
| **Difference** | **95% CI forDifference** |
| 98523 | (37518, 159529) |

**Test**

|  |  |
| --- | --- |
| Null hypothesis | H₀: μ₁ - µ₂ = 0 |
| Alternative hypothesis | H₁: μ₁ - µ₂ ≠ 0 |

|  |  |  |
| --- | --- | --- |
| **T-Value** | **DF** | **P-Value** |
| 3.24 | 55 | 0.002 |

Plate#14

Two-Sample T-Test and CI: Cell number Plate#14, Treatment Plate#14

**Method**

|  |
| --- |
| μ₁: population mean of Cell number Plate#14 when Treatment Plate#14 = LDH1 |
| µ₂: population mean of Cell number Plate#14 when Treatment Plate#14 = Uncontrolled |
| Difference: μ₁ - µ₂ |

Equal variances are not assumed for this analysis.

**Descriptive Statistics: Cell number Plate#14**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Treatment Plate#14** | **N** | **Mean** | **StDev** | **SE Mean** |
| LDH1 | 24 | 660071 | 99199 | 20249 |
| Uncontrolled | 24 | 313145 | 262904 | 53665 |

**Estimation for Difference**

|  |  |
| --- | --- |
| **Difference** | **95% CI forDifference** |
| 346926 | (229616, 464237) |

**Test**

|  |  |
| --- | --- |
| Null hypothesis | H₀: μ₁ - µ₂ = 0 |
| Alternative hypothesis | H₁: μ₁ - µ₂ ≠ 0 |

|  |  |  |
| --- | --- | --- |
| **T-Value** | **DF** | **P-Value** |
| 6.05 | 29 | 0.000 |

Plate#15

Two-Sample T-Test and CI: Cell number Plate#15, Treatment Plate#15

**Method**

|  |
| --- |
| μ₁: population mean of Cell number Plate#15 when Treatment Plate#15 = LDH1 |
| µ₂: population mean of Cell number Plate#15 when Treatment Plate#15 = Uncontrolled |
| Difference: μ₁ - µ₂ |

Equal variances are not assumed for this analysis.

**Descriptive Statistics: Cell number Plate#15**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Treatment Plate#15** | **N** | **Mean** | **StDev** | **SE Mean** |
| LDH1 | 30 | 698696 | 57339 | 10469 |
| Uncontrolled | 30 | 480091 | 206364 | 37677 |

**Estimation for Difference**

|  |  |
| --- | --- |
| **Difference** | **95% CI forDifference** |
| 218606 | (139048, 298163) |

**Test**

|  |  |
| --- | --- |
| Null hypothesis | H₀: μ₁ - µ₂ = 0 |
| Alternative hypothesis | H₁: μ₁ - µ₂ ≠ 0 |

|  |  |  |
| --- | --- | --- |
| **T-Value** | **DF** | **P-Value** |
| 5.59 | 33 | 0.000 |

Plate#16

Two-Sample T-Test and CI: Cell number Plate#16, Treatment Plate#16

**Method**

|  |
| --- |
| μ₁: population mean of Cell number Plate#16 when Treatment Plate#16 = LDH1 |
| µ₂: population mean of Cell number Plate#16 when Treatment Plate#16 = Uncontrolled |
| Difference: μ₁ - µ₂ |

Equal variances are not assumed for this analysis.

**Descriptive Statistics: Cell number Plate#16**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Treatment Plate#16** | **N** | **Mean** | **StDev** | **SE Mean** |
| LDH1 | 19 | 831683 | 49660 | 11393 |
| Uncontrolled | 30 | 637051 | 220108 | 40186 |

**Estimation for Difference**

|  |  |
| --- | --- |
| **Difference** | **95% CI forDifference** |
| 194632 | (109650, 279613) |

**Test**

|  |  |
| --- | --- |
| Null hypothesis | H₀: μ₁ - µ₂ = 0 |
| Alternative hypothesis | H₁: μ₁ - µ₂ ≠ 0 |

|  |  |  |
| --- | --- | --- |
| **T-Value** | **DF** | **P-Value** |
| 4.66 | 33 | 0.000 |