**S1.Weight Loss Measurement**

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| **System** | **Before Experiment** | **After Experiment** | **Weight loss (mg)** |
| S1 – (Control - 500 mL flask with 400 mL of autoclaved CTW with 1 % NB medium) | 423.64 | 394.29 | 29.35 ±1 |
| S2 - (S1+100 μL + SKR4 culture) | 423.68 | 96.92 | 326.76 ±1 |
| S3 - (S2+ 25 ppm of MEAP) | 424.65 | 305.06 | 119.59±1 |
| S4 - (S1+25 ppm of MEAP) | 423.17 | 407.39 | 15.78±1 |
| S5 - (S2+25 ppm of MERM) | 423.51 | 294.92 | 128.59 ±1 |
| S6 - (S1+25 ppm of MERM) | 423.91 | 404.08 | 19.83±1 |
| S7 - (S2+25 ppm of MEAM) | 423.16 | 287.43 | 135.73±1 |
| S8 - (S1+25 ppm of MEAM) | 423.49 | 400.40 | 23.09±1 |
| S9 - (S2+25 ppm of MEPP) | 423.84 | 278.33 | 145.51±1 |
| S10 - (S1+25 ppm of MEPP) | 423.04 | 395.38 | 27.66±1 |
| S11 - (S2+25 ppm of MEST) | 423.76 | 264.94 | 158.82±1 |
| S12­ - (S1+25 ppm of MEST) | 423.54 | 391.80 | 31.74±1 |