Supplementary Table 2. Characterization of Colony Growth of Rad Diploid Cells 24 Hours After Irradiation (2.5 krads).

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| --- | --- | --- | --- | --- |
| Diploid Strain1. | Single Unbudded Cells (%)2. | Large-budded Cells | Microcolonies (2-100 cells) | Minicolonies(> 100cells) |
| Rad+ | 6 (6) | 2 (2) | 15 (14) | 83 (84) |
| *rad55* | 4 (4) | 16 (15) | 47 (46) | 36 (35) |
| *mrell* | 16 (15) | 12 (12) | 61 (60) | 13 (13) |
| *xrs2* | 5 (5) | 3 (3) | 90 (88) | 4 (4) |
| *rad50* | 26 (21) | 6 (5) | 75 (61) | 15 (12) |
|  |  |  |  |  |
| *rad50 rad9* | 0 | 0 | 85 (82) | 19 (18) |
| *mre11 rad9* | 8 (7) | 3 (2) | 105 (88) | 4 (3) |
| *xrs2 rad9* | 2 (2) | 2 (2) | 81 (79) | 17 (17) |
| *rad51 rad9* | 1 (1) | 6 (6) | 87 (92) | 1 (1) |

1. For full genotype, see supplemental Table 1.

2. Percentage rounded to the nearest integer.