**Notes Regarding Terminology and Experimental Data**

1. The details of the experiments are described in the published paper, which is freely available in Open Access at the following URL: <http://ehp.niehs.nih.gov/15-09852/> At this website, both the main paper and the Supplemental Material are available. All details of the study are described.

2. In the present data set, which is also Table 3 in Supplemental Material, the data are the number of mutant colonies (revertants or rev) per petri plate relative to the dose of extractable organic material (EOM) per petri plate. As noted in the table, the data are the average of 2 experiments.

3. The terms used in the table include the names of the 3 stoves, which are (a) 3-stone fire (TSF), (b) natural-draft stove (NDS), and (c) forced-draft stove (FDS). S9 refers to a homogenate of rat liver with cofactors that either has (+) or has not (-) been added to the petri plate to provide a semblance of mammalian metabolism, which bacteria are otherwise lacking. The strains of bacteria are listed in the first column, and the details of these strains are available at the URL noted above in the paper.

4. As described in the paper, available at the URL above, the organic extract of the emissions is considered to be mutagenic if it produced at least a twofold increase in the number of revertants/plate relative to the zero control. Based on this, all of the emissions were mutagenic in all of the strains.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Mutagenicity in *Salmonella* of organic extracts of PM2.5 from the three emissions | | | | | | | | | |
|  |  | Rev/platea | | | | | | | |
|  | µg EOM | TSF | |  | NDS | |  | FDS | |
| Strain | per plate | +S9 | -S9 |  | +S9 | -S9 |  | +S9 | -S9 |
| TA100 | 0 | 109b | 87 |  | 109b | 87 |  | 117 | 90 |
|  | 1.0 | NA | NA |  | NA | NA |  | 225 | NA |
|  | 2.5 | 169 | NA |  | 227 | NA |  | 373 | 159c |
|  | 5 | 289b | 121 |  | 421b | 134c |  | 510 | 166 |
|  | 10 | 399 | 163 |  | 552 | 238 |  | 765c,d | 229 |
|  | 20 | NA | NA |  | NA | NA |  | NA | 330c |
|  | 25 | 1105c | 246 |  | 1313c | 398 |  | NA | NA |
|  | 50 | 1309c,d | NA |  | 1565c,d | 817c |  | NA | NA |
| TA98 | 0 | 58 | 47b |  | 58 | 47b |  | 51 | 37 |
|  | 1.0 | NA | NA |  | NA | NA |  | NA | 44c |
|  | 2.5 | NA | NA |  | NA | NA |  | 125 | 79 |
|  | 5 | 106 | 62b |  | 135 | 93b |  | 192 | 119 |
|  | 10 | NA | NA |  | 138c | NA |  | 262d | 178d |
|  | 20 | NA | NA |  | NA | NA |  | NA | NA |
|  | 25 | 246 | 143b |  | 406 | 207b |  | NA | NA |
|  | 50 | 416 | 193b,d |  | 666 | 337b |  | NA | NA |
| TA104 | 0 | 276 | 276c |  | 276 | 276c |  | 306 | 194c |
|  | 2.5 | NA | NA |  | NA | NA |  | 446 | 237c |
|  | 5 | 365 | 284c |  | 439c | 327c |  | 565 | 312c |
|  | 10 | 440 | 332c |  | 552 | 360c |  | 647d | 358c,d |
|  | 20 | NA | NA |  | NA | NA |  | 705c,d | 402c,d |
|  | 25 | 608 | 402c |  | 806d | 559c |  | NA | NA |
|  | 50 | NA | NA |  | 1018c,d | NA |  | NA | NA |
| YG1041 | 0 | 50c | 56b |  | 50c | 56 |  | 54c | 36 |
|  | 0.25 | NA | NA |  | NA | NA |  | 55c | 82 |
|  | 0.5 | NA | NA |  | NA | NA |  | 78c | 125 |
|  | 1 | NA | 125c |  | 69c | 102 |  | 110c | 215 |
|  | 2.5 | 78c | 162b |  | 127c | 198 |  | NA | NA |
|  | 5 | 144c | 277 |  | 249c | 345 |  | NA | NA |
|  | 10 | 263c | 433 |  | NA | 513d |  | NA | NA |

aTSF, three-stone fire; NDS, natural-draft stove; FDS, forced-draft stove; rev, revertants; EOM, extractable organic material; except where noted, data are the average of 2 independent mutagenicity experiments, each at 1 plate per dose. Thus, unless noted otherwise, data are the average of 2 plates/dose. NA, not applicable; these doses were not tested. Positive controls data (average rev/plate, range) are 2-aminoanthracene (+S9): TA100 (719, 446-1046), TA98 (576, 436-702), YG1041 (1483, 1221-1608), TA104 (647, 608-688); sodium azide (-S9): TA100 (646, 548-848); 2-nitrofluorene (-S9): TA98 (522, 394-664), YG1041 (1383, 1240-1497); and methylglyoxal (-S9): TA104 (424, 382-462).

bData are the average of 3 independent mutagenicity experiments, each at 1 plate per dose; thus, the data are the average of 3 plates.

cData are from a single experiment with 1 plate per dose.

dThese data were not used in the linear regressions because they were outside of the linear portion of the dose-response curves.