

Table 8: ROS BMC Summary (24-hour Exposures)

Cell Type	Group	Substance Name	Number of Active Experiments (Total)	BMC of median curve (µg/mL) ^{1,2}	BMC (min, max) (µg/mL) ²	BMC of median curve (µM) ^{1, 2,3}	Top of median curve ⁴	Top (min, max) ⁴
HaCaT	Active	AMPA	2 (3)	4906	(3729, 6662)	44180	51.36	(22.97, 56.43)
HaCaT	Active	Diquat	9 (9)	396.2	(99.27, 21724)	1094	194.8	(22.53, 863.2)
HaCaT	Active	Glyphosate	1 (3)	10144	(981.3, 10144)	60000	23.80	(23.80, 100.3)
HaCaT	Active	G-IPA	1 (3)	13691	(9012, 13691)	60000	18.08	(18.08, 51.09)
HaCaT	Active	Mesotrione	0 (3)	10180	(10180, 10180)	30000	0	(0, 75.14)
HaCaT	Active	Metolachlor	2 (3)	40.81	(39.6, 340.5)	143.8	166.9	(25.57, 230.1)
HaCaT	GBF	GBF-A	3 (3)	2126	(1808, 2830)	10629	70.41	(32.36, 70.41)
HaCaT	GBF	GBF-B	3 (3)	212.7	(96.94, 229.1)	1063	78.48	(78.48, 231.1)
HaCaT	GBF	GBF-C	3 (3)	602.5	(395.5, 958)	3013	83.39	(83.39, 179.3)
HaCaT	GBF	GBF-D	3 (3)	629.0	(454.7, 692.1)	3145	61.43	(61.43, 203.4)
HaCaT	GBF	GBF-E	3 (3)	471.4	(465.7, 681.1)	2357	49.01	(49.01, 140.1)
HaCaT	GBF	GBF-F	2 (3)	2250	(1538, 4326)	11251	105.9	(48.65, 105.9)
HaCaT	GBF	GBF-G	2 (3)	331.5	(180.3, 4373)	1658	69.85	(54.49, 127.9)
HaCaT	GBF	GBF-H	2 (3)	155.4	(136.7, 4032)	777.1	82.03	(43.14, 82.03)
HaCaT	GBF	GBF-I	3 (3)	88.34	(46.99, 107.4)	441.7	81.25	(81.25, 199.9)
HaCaT	GBF	GBF-J	3 (3)	93.45	(83.8, 126.2)	467.3	233.8	(63.65, 233.8)
HaCaT	GBF	GBF-K	2 (3)	122.7	(116.2, 3042)	613.6	65.47	(43.79, 97.28)
HaCaT	GBF	GBF-L	3 (3)	122.3	(113.2, 277.6)	611.6	94.71	(94.71, 175.4)
HaCaT	GBF	GBF-M	0 (3)	4367	(4367, 4367)	21834	0	(0, 0)
HaCaT	Negative Control	Potassium Chloride	0 (9)	89.46	(89.46, 89.46)	1200	0	(0, 33.79)
HaCaT	Negative Control	Sucrose	4 (9)	410.8	(139.4, 410.8)	1200	0	(0, 118.7)
HaCaT	Other	Antimycin	8 (9)	0.01313	(0.001141, 6.583)	0.02393	89.63	(21.03, 165.6)
HaCaT	Other	Etoposide	6 (9)	83.68	(11.55, 353.1)	142.2	38.53	(17.02, 91.34)
HaCaT	Positive Control	Menadione	9 (9)	2.020	(1.052, 3.841)	11.73	436.0	(106.0, 1706)
HaCaT	Positive Control	TBHP	9 (9)	15.40	(5.924, 28.57)	170.8	118.6	(85.75, 472.8)
HRG2DC	Active	AMPA	1 (2)	1833	(1833, 6662)	16510	54.11	(0, 54.11)
HRG2DC	Active	Diquat	7 (7)	515.6	(124.1, 757.7)	1424	521.5	(297.4, 521.5)
HRG2DC	Active	Glyphosate	1 (2)	1808	(1808, 10144)	10695	133.1	(0, 133.1)
HRG2DC	Active	G-IPA	1 (2)	8958	(8958, 13691)	39259	94.02	(0, 94.02)
HRG2DC	Active	Mesotrione	1 (2)	1044	(1044, 10180)	3077	27.77	(27.77, 27.94)
HRG2DC	Active	Metolachlor	2 (2)	29.82	(29.82, 103.8)	105.1	208.6	(59.61, 208.6)
HRG2DC	GBF	GBF-A	0 (2)	3808	(3808, 3808)	19038	0	(0, 0)
HRG2DC	GBF	GBF-B	1 (2)	427.2	(427.2, 3061)	2136	154.5	(0, 154.5)
HRG2DC	GBF	GBF-C	1 (3)	4610	(143.6, 4610)	23052	43.36	(43.36, 104.4)
HRG2DC	GBF	GBF-D	1 (2)	1180	(1180, 4219)	5900	129.8	(0, 129.8)
HRG2DC	GBF	GBF-E	1 (2)	1217	(1217, 4296)	6083	100.2	(0, 100.2)
HRG2DC	GBF	GBF-F	0 (3)	4326	(4326, 4326)	21630	0	(0, 12.17)
HRG2DC	GBF	GBF-G	2 (3)	647.0	(621.6, 4373)	3235	156.7	(14.17, 156.7)
HRG2DC	GBF	GBF-H	3 (3)	560.1	(145.3, 2591)	2801	83.41	(83.41, 161.6)
HRG2DC	GBF	GBF-I	3 (3)	283.5	(113.6, 1844)	1417	169.3	(169.3, 289.9)
HRG2DC	GBF	GBF-J	3 (3)	342.2	(96.47, 2614)	1711	65.41	(65.41, 222.6)
HRG2DC	GBF	GBF-K	1 (2)	427.5	(427.5, 3042)	2137	83.02	(50.89, 83.02)
HRG2DC	GBF	GBF-L	2 (2)	383.2	(383.2, 2408)	1916	137.4	(137.4, 243.6)
HRG2DC	GBF	GBF-M	0 (2)	4367	(4367, 4367)	21834	0	(0, 0)
HRG2DC	Negative Control	Potassium Chloride	0 (7)	89.46	(89.46, 89.46)	1200	0	(0, 41.21)
HRG2DC	Negative Control	Sucrose	0 (7)	410.8	(410.8, 410.8)	1200	0	(0, 13.67)
HRG2DC	Other	Antimycin	2 (7)	6.583	(0.01054, 6.583)	12	0	(0, 52.26)
HRG2DC	Other	Etoposide	0 (7)	353.1	(353.1, 353.1)	600	0	(0, 25.97)
HRG2DC	Positive Control	Menadione	7 (7)	1.533	(0.6833, 9.941)	8.903	915.7	(88.05, 915.7)
HRG2DC	Positive Control	TBHP	6 (7)	51.74	(40.83, 108.1)	574.1	519.6	(2.811, 519.6)

¹ Median BMC values were derived based on the median dose response curve across independent experiments. For even-numbered replicates, the curve with the lower BMC was chosen as the representative.

²For inactive dose response curves (i.e. hitcall < 0.90 or when the benchmark concentration is undefined or above the maximum concentration tested for the test article), a value that is 1.2 times the max concentration was imputed.

³For GBFs, a suppositional average constituent molecular weight of 200 Daltons was assigned.

⁴For inactive dose response curves where the top parameter is undefined, a value of 0 was used to indicate inactivity.