

IRP#: NHEERL/EPHD/CIB/MIG/2011-01-r0

Excel File: Whole Extr B50A,B,C & B100A,B YG Strains

Experiment dates: 09/11/12 & 09/14/12

**Summary of Results from Standard Plate Incorporation Assay (72hr incubation)**

Mutagenicity (expressed as rev/ug EOM)

Biodiesel Particulate Extracts in DMSO @ 5MG/ML B50-A&B (33.42% & 30.19% EOM),

@10mg/ml B100-A&B (61.84% & 58.11% EOM), Blank (C0)

Strains: YG1041, YG1042

Activation: RLA104

Sample ID: B50-A & B (AVG %EOM 31.8)										
Dose	YG1041				Avg	YG1041				Avg
µg EOM/plate	-	-	-	-	-	+	+	+	+	+
0	43	35	43	35	39	58	51	58	51	55
12.5	244	208	162	112	182	121	92	102	104	105
25	348	296	235	202	270	175	187	137	111	153
50	677	720	476	505	595	334	315	256	209	279
125	1350	1390	981	998	1180	706	640	539	526	603
r2	0.99	0.99	1.0	0.99	0.99	1.0	0.99	1.0	0.99	1.0
s	10.2	10.9	7.5	7.9	9.1	5.2	4.8	3.9	3.8	4.4
			rev/ug particle		2.8938			rev/ug particle		1.3992

Sample ID: B100-A & B (AVG %EOM 60.0)										
Dose	YG1041				Avg	YG1041				Avg
µg EOM/plate	-	-	-	-	-	+	+	+	+	+
0	43	35	43	35	39	58	51	58	51	55
25	184	163	167	306	205	115	105	97	128	111
50	320	281	267	259	282	148	173	177	139	159
100	545	534	546	523	537	249	248	243	258	250
250	1134	1180	1033	1098	1111	591	529	591	592	576
r2	1.0	1.0	0.99	0.97	0.99	1.0	1.0	0.99	0.99	1.0
s	5.0	4.6	3.9	4.0	4.2	2.1	1.9	2.1	2.1	2.1
			rev/ug particle		2.52			rev/ug particle		1.26

Sample ID: C0 (Lab Blank)					
Dose	YG1041		YG1042		
µg EOM/plate	-	+	-	+	
0	43	58	100	97	
2.5	39	54	88	112	
5	50	57	111	120	
10	44	59	101	149	
25	40	75	112	125	
r2					
s	0	0	0	0	

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@10mg/ml B100-A&B (61.84% & 58.11% EOM), Blank (LB)

Strains: YG1041, YG1042

Activation: RLA104

Sample ID: B50-A & B (AVG %EOM 31.8)										
Dose	YG1042				Avg	YG1042				
µg EOM/plate	-	-	-	-	-	+	+	+	+	
0	100	92	100	92	96	97	110	97	110	
12.5	261	167	209	133	193	204	194	198	252	
25	262	197	394	238	273	339	286	281	302	
50	348	150	460	265	306	518	504	440	449	
125	406	190	435	210	310	748	555	608	493	
r2	0.81	0.94	0.98	0.94	1.0	0.99	0.99	1.0	0.97	
s	4.4	4.2	11.8	5.8	7.1	8.5	7.9	6.8	6.4	
			rev/ug particle		2.2578			rev/ug particle		

Sample ID: B100-A & B (AVG %EOM 60.0)										
Dose	YG1042				Avg	YG1042				
µg EOM/plate	-	-	-	-	-	+	+	+	+	
0	100	92	100	92	96	97	110	97	110	
25	217	188	227	186	205	194	193	166	183	
50	313	225	331	262	283	285	295	268	259	
100	388	347	442	217	349	428	437	421	469	
250	397	287	424	209	329	706	533	638	572	
r2	1.0	0.98	1.0	1.0	0.99	0.99	1.0	1.0	0.99	
s	4.3	2.4	4.6	3.4	3.7	3.3	3.7	3.3	3.6	
			rev/ug particle		2.22			rev/ug particle		

Avg

+

**104**

**212**

**302**

**478**

601

1.0

**7.4**

**2.3532**

Avg

+

**104**

**184**

**277**

**439**

612

1.0

**3.4**

**2.04**