

APPENDIX D

**MB Research Laboratories LLNA: 25% Hexyl Cinnamic Aldehyde (HCA)
Historical Data**

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MB Research Laboratories LLNA: 25% Hexyl Cinnamic Aldehyde (HCA) Historical Data

Vehicle: Dimethylacetamide: Acetone: Ethanol (DAE 433)

Approx. Date	Exp.	Conc.	#BrdU+ cells					Mean SI	Vehicle	#BrdU+ cells				
02/23/05	DAE1	25%	117760	83391	80372	46056	133028	8.0	DAE 433	17854	694	8547	10557	20171
03/09/05	DAE2	25%	118379	112905	66137	86912	78920	12.5	DAE 433	6070	4806	10336	6349	9540
04/13/05	DAE3	25%	143549	128742	75327	85217	114300	22.1	DAE 433	5921	2154	3028	7598	6046
02/21/07	DAE4	25%	69134	118012	142729	161192	197217	16.9	DAE 433	11958	11653	3193	8609	5434
04/24/07	DAE5	25%	153230	130402	108645	128360	166256	7.6	DAE 433	22439	16334	10622	24796	16524
								Mean = 13.4 S.E.M.= 2.8 n = 5 SD = 6.159143609 CV = 45.9%						

Vehicle: Acetone

Approx. Date	Exp.	Conc.	#BrdU+ cells					Mean SI	Vehicle	#BrdU+ cells				
08/10/05	ACE1	25%	225451	188773	205942	174627	200441	25.9	Acetone	4692	12419	9429	4832	7066
01/15/06	ACE2	25%	169184	177223	357425	197383	---	16.8	Acetone	19075	2786	26691	9085	9444
								Mean = 21.3 S.E.M.= 4.5 n = 2 SD = 6.433700706 CV = 30.1%						

Vehicle: Polyethylene Glycol (PEG)

Approx. Date	Exp.	Conc.	#BrdU+ cells					Mean SI	Vehicle	#BrdU+ cells				
11/02/06	PEG1	25%	59655	208656	170848	165583	163403	21.2	PEG 400	3466	2728	12807	7562	9706

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Vehicle: Acetone:Olive Oil (4:1) (AOO)

Approx. Date	Exp.	Conc.	#BrdU+ cells					Mean SI	Vehicle	#BrdU+ cells				
02/23/05	AOO1	25%	50108	123592	76275	41412	33739	27.9	AOO	525	1829	1365	3805	4118
03/09/05	AOO2	25%	117369	148495	121476	136600	32292	6.5	AOO	30626	6815	10509	15880	21565
04/13/05	AOO3	25%	124002	150392	153822	176976	115336	12.8	AOO	5946	5197	9284	21832	14129
11/22/05	AOO4	25%	126189	163255	78671	200969	336779	10.1	AOO	3538	2489	29758	31287	22592
02/28/06	AOO5	25%	68308	85505	76858	31277	124326	9.4	AOO	16256	6124	7154	7450	3954
03/25/06	AOO6	25%	155430	65215	184582	141890	118440	3.9	AOO	32099	45208	39650	20933	---
04/10/06	AOO7	25%	266503	177602	122440	142171	179884	12.0	AOO	16610	21782	17291	12189	6193
04/25/06	AOO8	25%	137384	102485	140431	106428	---	8.7	AOO	15102	26657	7144	1744	19457
05/05/06	AOO9	25%	58859	163682	77451	138717	128234	5.7	AOO	29740	12262	8204	34350	14930
05/17/06	AOO10	25%	365495	254510	321232	332264	161854	16.0	AOO	20826	11739	18860	21130	17324
06/08/06	AOO11	25%	105487	215389	99657	68481	19448	15.3	AOO	2423	11427	14122	1672	3515
07/06/06	AOO12	25%	203918	100676	136413	88222	63197	7.7	AOO	6590	15167	21934	25128	8542
07/31/06	AOO13	25%	36131	103219	147375	96343	91964	10.9	AOO	9243	4981	1904	16774	10845
09/05/06	AOO14	25%	226175	56202	186005	132224	230580	14.1	AOO	14801	11833	13848	7452	11039
01/22/07	AOO15	25%	147252	302179	107616	194550	203769	9.1	AOO	26976	13237	5478	27951	30851
06/14/07	AOO16	25%	99081	89879	21027	74939	55015	6.4	AOO	13306	8842	10701	9743	---
07/05/07	AOO17	25%	79021	59237	133493	61678	122416	5.6	AOO	15241	6786	24130	23802	10941
07/10/07	AOO18	25%	48772	39221	43185	51414	---	7.4	AOO	4501	9760	1807	4159	10796
07/31/07	AOO19	25%	185052	214338	92611	84495	91560	13.9	AOO	11665	4185	5027	16462	10805

Mean = 10.7
 S.E.M.= 1.3
 n = 19
 SD = 5.452191028
 CV = 51.0%

(2001-2007: mean = 9.46, S.E.M = 0.89, n = 45)

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Vehicle: Dimethyl sulfoxide (DMSO)

Approx. Date	Exp.	Conc.	#BrdU+ cells					Mean SI	Vehicle	#BrdU+ cells				
02/23/05	DMSO1	25%	15809	8719	9832	8004	17100	2.7	DMSO	15809	8719	9832	8004	17100
04/13/05	DMSO2	25%	101903	125239	105577	138504	98554	6.5	DMSO	7046	17265	13294	21346	28184
07/01/05	DMSO3	25%	67259	181273	87790	117030	123779	14.2	DMSO	8063	3999	13009	7524	---
07/19/05	DMSO4	25%	70203	104623	99654	120584	77416	11.8	DMSO	8930	5643	7576	10798	7210
01/15/06	DMSO5	25%	112028	82753	178147	110841	---	3.0	DMSO	28566	52544	30805	51118	---
01/15/06	DMSO6	25%	227270	20466	128422	118931	152148	4.6	DMSO	21044	36669	15855	19022	49269
04/18/06	DMSO7	25%	132131	98561	119510	93410	178088	2.7	DMSO	28490	72858	51024	30434	49298
09/28/06	DMSO8	25%	211695	156574	151312	74446	114266	5.7	DMSO	21775	32297	27295	23873	18390
12/12/06	DMSO9	25%	97495	49978	54138	85401	74355	5.2	DMSO	8840	13048	16382	17891	13976
01/12/07	DMSO10	25%	172041	218448	116542	280886	46024	10.9	DMSO	29085	12604	10896	8673	---
01/26/07	DMSO11	25%	53150	77117	85523	53637	81475	5.2	DMSO	15749	21279	6544	10898	12460
02/02/07	DMSO12	25%	103862	93932	89628	188736	101616	4.6	DMSO	24400	31525	27998	8399	32456
03/16/07	DMSO13	25%	140651	96012	158106	197058	106934	7.2	DMSO	16739	18277	12192	32368	17100
04/10/07	DMSO14	25%	139703	198785	125939	172035	199951	4.0	DMSO	35130	39654	65667	37951	28430
02/13/07	DMSO15	25%	129539	106874	146418	127342	237263	5.6	DMSO	41034	19142	25764	14747	31912
02/06/07	DMSO16	25%	216671	307915	139560	340530	163616	4.4	DMSO	47918	38943	66799	34914	74646
03/01/07	DMSO17	25%	110908	176907	113883	53820	120371	5.3	DMSO	14668	35854	28421	14682	15499
03/16/07	DMSO18	25%	140651	96012	158106	197058	106934	7.2	DMSO	16739	18277	12192	32368	17100
04/10/07	DMSO19	25%	139703	198785	125939	172035	199951	4.0	DMSO	35130	39654	65667	37951	28430
05/18/07	DMSO20	25%	92412	65730	116261	101709	105241	4.4	DMSO	18989	7644	30958	23412	28324
05/29/07	DMSO21	25%	154771	136136	180802	111264	129183	4.8	DMSO	32820	27394	38248	29027	19367
07/13/07	DMSO22	25%	323337	265624	197125	205114	136441	10.0	DMSO	11940	36005	18375	19512	27045
07/31/07	DMSO23	25%	165766	208446	218559	162598	159683	15.3	DMSO	8086	12315	21440	5066	12739
07/31/07	DMSO24	25%	260973	282192	307322	91135	161727	9.9	DMSO	20948	17975	19557	15912	37521
08/13/07	DMSO25	25%	95302	72116	137090	218461	166605	5.2	DMSO	18621	44372	15750	22894	31689
09/07/07	DMSO26	25%	138814	125135	120691	234770	164258	9.0	DMSO	21375	19944	13594	20120	12398

Mean = 6.7
S.E.M.= 0.7
n = 26
SD = 3.436304432
CV = 51.6%

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Vehicle: N,N-Dimethylformamide (DMF)

Approx. Date	Exp.	Conc.	#BrdU+ cells					Mean SI	Vehicle	#BrdU+ cells					
02/23/05	DMF1	25%	48461	19562	100359	47334	13226	8.0	DMF	9263	690	5400	3563	9728	
04/13/05	DMF2	25%	97677	182285	151496	136897	149246	9.0	DMF	15381	15852	21107	9102	18650	
09/10/07	DMF3	25%	77779	225705	225930	194723	124102	14.6	DMF	2745	23103	20979	4757	6453	
09/18/07	DMF4	25%	31201	237936	46442	172271	116864	3.4	DMF	12373	18538	38475	77203	33052	
								Mean = 8.7							
								S.E.M.= 2.3							
								n = 4							
								SD = 4.598956403							
								CV = 52.6%							

Vehicle: Ethanol: Water (EtOH/dH2O) (50%/50%)

Approx. Date	Exp.	Conc.	#BrdU+ cells					Mean SI	Vehicle	#BrdU+ cells					
02/23/05	ETOH1	25%	25689	67158	48171	96889	94252	16.2	EtOH	3381	2644	4230	2175	8051	
04/13/05	ETOH2	25%	145785	141734	83324	191720	109025	20.2	EtOH	6220	12361	1895	6070		
09/15/06	ETOH3	25%	148177	315068	423742	442438	395294	18.3	EtOH	24483	24563	14888	15210	14888	
12/12/06	ETOH4	25%	54416	33223	40326	38914	45742	6.1	EtOH	1877	7936	8160	5878	10751	
								Mean = 15.2							
								S.E.M.= 3.1							
								n = 4							
								SD = 6.293414547							
								CV = 41.4%							

Abbreviations: BrdU = Bromodeoxyuridine; Conc. = Concentration; CV = Coefficient of variance; Exp. = Experiment identification; FC = Flow cytometry; LLNA = Local lymph node assay; LLNA = Local lymph node assay; n = Number of values used in the calculation; SD = Standard deviation; S.E.M. = Standard error of mean; SI = Stimulation index.