

Ames test

試験結果表

被験物質：検体A、検体B、検体C、検体D

試験番号：9872(079-361)

代謝活性化系の有無	被験物質の用量 (μ g/プレート)	復帰変異数(コロニー数/プレート)			
		検体A	検体B	検体C	検体D
		WP2uvrA/pKM101	WP2uvrA/pKM101	WP2uvrA/pKM101	WP2uvrA/pKM101
-S9mix	陰性対照	97 110 (104)	102 123 (113)	121 111 (116)	113 95 (104)
	39.1	124 123 (124)	130 142 (136)	129 135 (132)	116 112 (114)
	78.1	123 139 (131)	121 153 (137)	198 143 (171)	119 110 (115)
	156	180 186 (183)	162 153 (158)	153 170 (162)	126 129 (128)
	313	220 239 (230)	190 172 (181)	185 161 (173)	130 152 (141)
	625	322 298 (310)	223 227 (225)	229 186 (208)	162 151 (157)
	1250	361 408 (385)	275 289 (282)	278 329 (304)	212 219 (216)
	2500	561 560 (561)	364 441 (403)	363 448 (406)	290 288 (289)
	5000	776 830 (803)	611 580 (596)	663 777 (720)	431 408 (420)
+S9mix	陰性対照	150 168 (159)	189 181 (185)	196 170 (183)	152 165 (159)
	39.1	250 260 (255)	233 222 (228)	194 201 (198)	169 178 (174)
	78.1	315 328 (322)	225 279 (252)	165 201 (183)	208 193 (201)
	156	445 436 (441)	231 236 (234)	217 234 (226)	237 214 (226)
	313	572 556 (564)	223 261 (242)	264 239 (252)	218 221 (220)
	625	718 705 (712)	273 273 (273)	272 277 (275)	217 238 (228)
	1250	907 874 (891)	323 314 (319)	305 291 (298)	253 272 (263)
	2500	1021 1074 (1048)	360 349 (355)	372 349 (361)	299 280 (290)
	5000	1338 1297 (1318)	417 401 (409)	451 422 (437)	291 302 (297)
陽性対照	S9mixを必要としないもの	名称	AF-2	AF-2	AF-2
		用量(μ g/プレート)	0.01	0.01	0.01
		コロニー数/プレート	3495 3541 (3518)	4739 5109 (4924)	2799 2815 (2807)
	S9mixを必要とするもの	名称	2-AA	2-AA	2-AA
		用量(μ g/プレート)	2.00	2.00	2
		コロニー数/プレート	1139 1093 (1116)	1232 1392 (1312)	1115 1185 (1150)

AF-2 :2-(2-Furyl)-3-(5-nitro-2-furyl)acrylamide

2-AA :2-Aminoanthracene

-S9mix	A	B	C	D	-S9mix	検体A	検体B	検体C	検体D	
0.797		136			陰性対照	104	陰性対照	113	陰性対照	104
0.977			132	114	39.1	124	0.797	136	0.977	114
1.59		137			78.1	131	1.59	137	1.95	115
1.95			171	115	156	183	3.19	158	3.91	128
3.19		158			313	230	6.38	181	7.81	141
3.91			162	128	625	310	12.8	225	15.6	157
6.38		181			1250	385	25.5	282	31.3	216
7.81			173	141	2500	561	51.0	403	62.5	289
12.8		225			5000	803	102	596	125	420
15.6			208	157						
25.5		282			+S9mix					
31.3			304	216	陰性対照	159	陰性対照	185	陰性対照	183
39.1	124				39.1	255	0.797	228	0.977	198
51.0		403			78.1	322	1.59	252	1.95	183
62.5			406	289	156	441	3.19	234	3.91	226
78.1	131				313	564	6.38	242	7.81	252
102		596			625	712	12.8	273	15.6	275
125			720	420	1250	891	25.5	319	31.3	298
156	183				2500	1048	51.0	355	62.5	361
313	230				5000	1318	102	409	125	437
625	310									
1250	385									
2500	561									
5000	803									

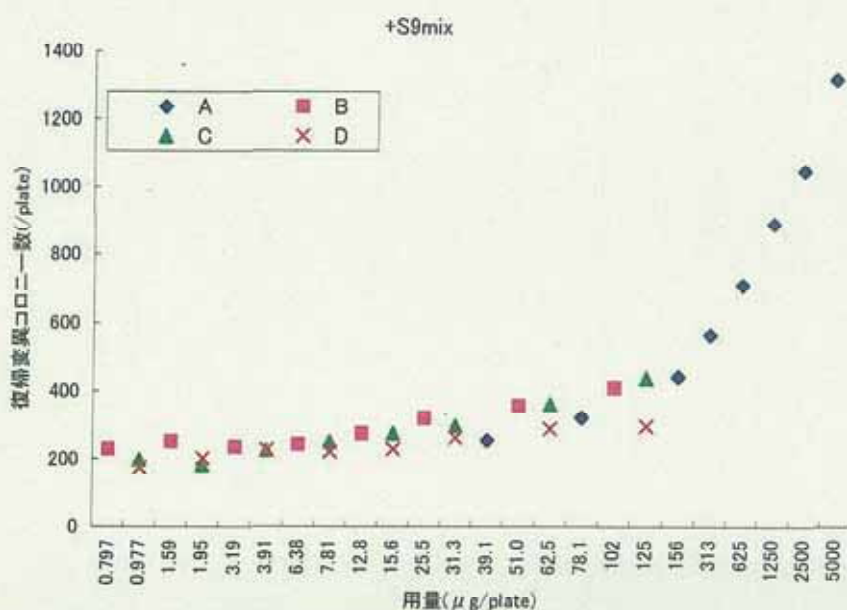
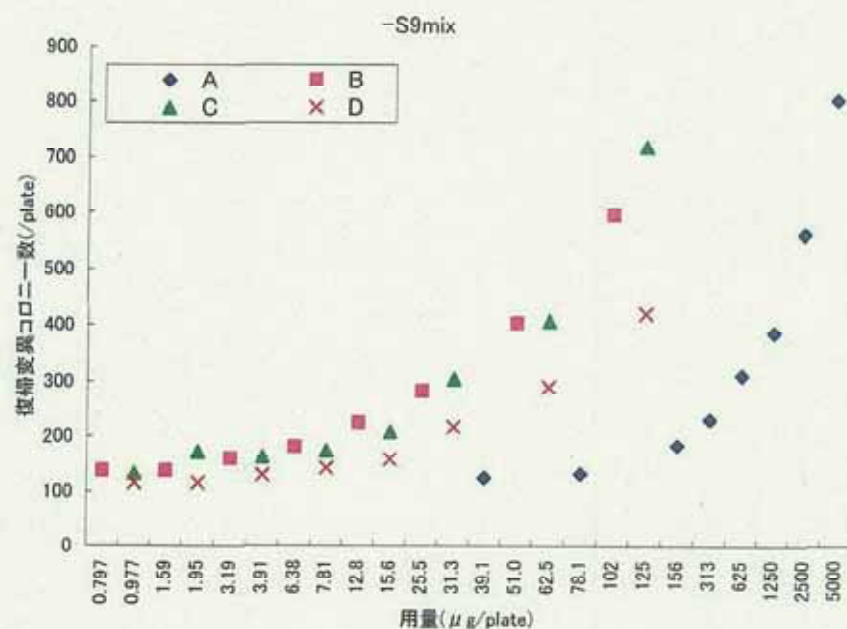
900

-S9mix

+S9mix	A	B	C	D
0.797		228		
0.977			198	174
1.59		252		
1.95			183	201
3.19		234		
3.91			226	226
6.38		242		
7.81			252	220
12.8		273		
15.6			275	228
25.5		319		
31.3			298	263
39.1	255			
51.0		355		
62.5			361	290
78.1	322			
102		409		
125			437	297
156	441			
313	564			
625	712			
1250	891			
2500	1048			
5000	1318			

Ames test

被験物質: 検体A, 検体B, 検体C, 検体D
試験番号: 9872(079-361)



上記の2表とも横軸(用量)は等間隔ではない。

Ames test

被験物質：検体A、検体B、検体C、検体D

strain: *E. coli* WP2 uvrA/pKM101S9: PB+5,6-BF誘導rat liver 50 μ L/plate

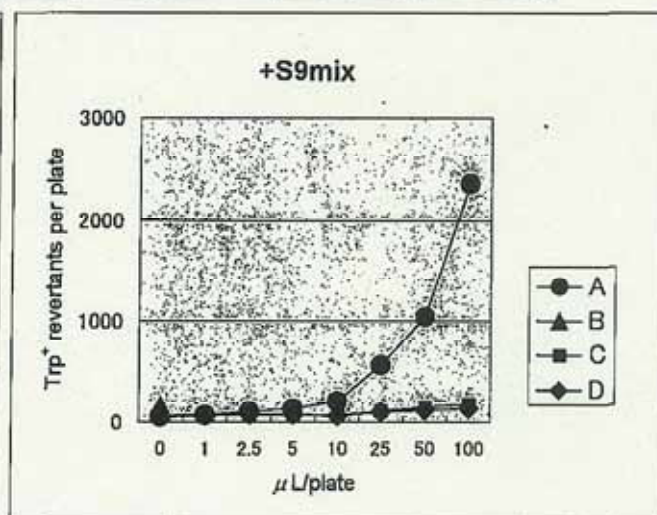
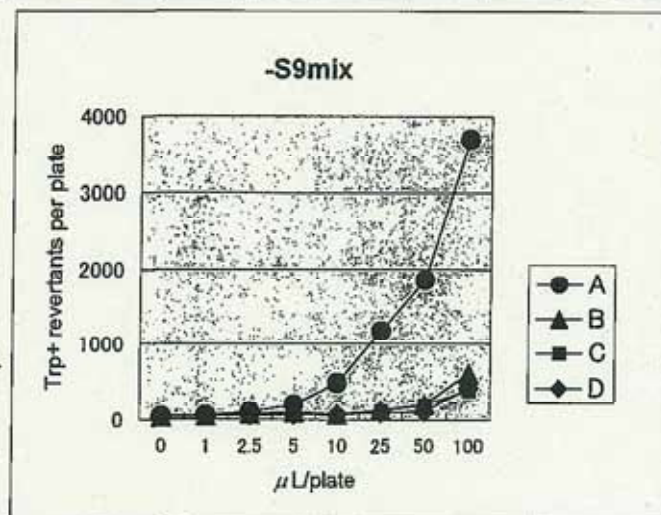
solvent: Water

without S9

μ L/plate	検体A			検体B			検体C			検体D		
	#1	#2	average	#1	#2	average	#1	#2	average	#1	#2	average
0	43	40	42	40	38	39	40	44	42	39	33	36
1	63		63	48	54	51	63	51	57	57	49	53
2.5	105	100	103	83	70	77	70	82	76	66	58	62
5	212	188	200	95	104	100	75	90	83	64	67	66
10	496	480	488	61	82	72	43	62	53	62	69	66
25	1168	1184	1176	152	106	129	147	88	118	91	98	95
50	1920	1784	1852	188	219	204	182	217	200	120	103	112
100	3856	3536	3696	640	576	608	336	448	392	432	416	424

with S9

μ L/plate	検体A			検体B			検体C			検体D		
	#1	#2	average	#1	#2	average	#1	#2	average	#1	#2	average
0	40	57	49	51	40	46	45	68	57	50	51	51
1	69		69	54	58	56	75	72	74	76	56	66
2.5	94	127	111	75	53	64	75	62	69	81	71	76
5	140	143	142	78	53	66	74	80	77	77	73	75
10	230	191	211	76	52	64	59	82	71	51	79	65
25	520	608	564	125	126	126	117	113	115	105	93	99
50	1072	1024	1048	125	154	140	151	150	151	121	121	121
100	2272	2432	2352	155	160	158	192	179	186	133	140	137



Ames test

別紙4

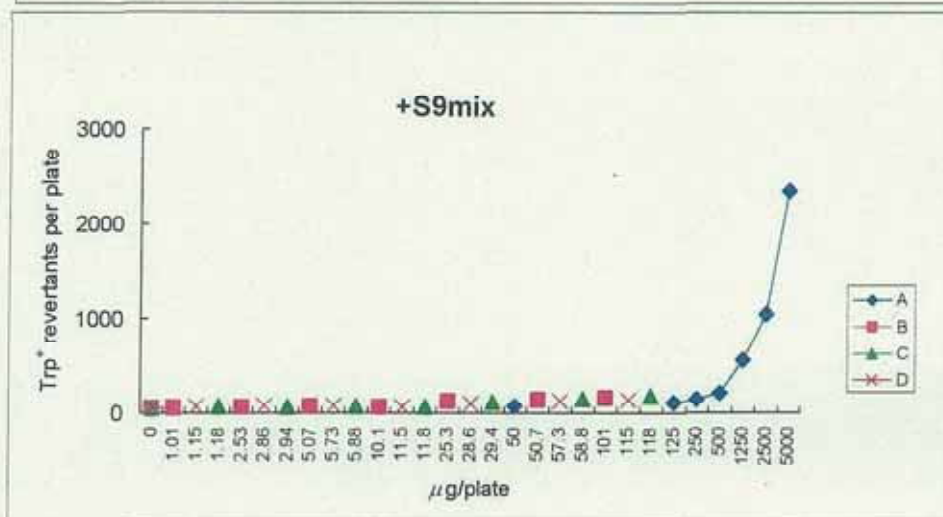
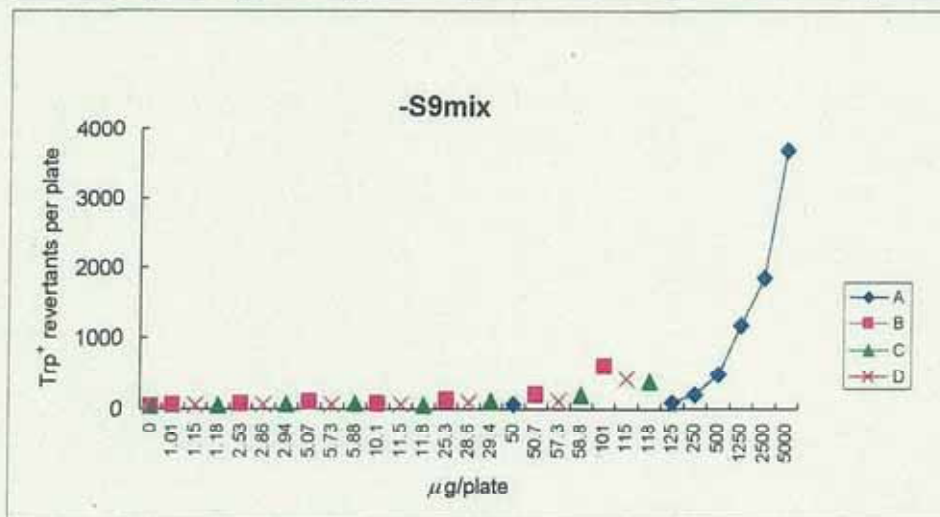
被験物質: 検体A、検体B、検体C、検体D

strain: *E. coli* WP2 *uvrA*/pKM101

S9: PB+5,6-BF誘導rat liver 50 μ L/plate

solvent: Water

μ g/plate	Without S9				With S9			
	検体A	検体B	検体C	検体D	検体A	検体B	検体C	検体D
0	42	39	42	36	49	46	57	51
1.01		51				56		
1.15				53				66
1.18			57				74	
2.53		77				64		
2.86				62				76
2.94			76				69	
5.07		100				66		
5.73				66				75
5.88			83				77	
10.13		72				64		
11.45				66				65
11.75			53				71	
25.33		129				126		
28.63				95				99
29.38			118				115	
50	63				69			
50.65		204				140		
57.25				112				121
58.75			200				151	
101.3		608				158		
114.5				424				137
117.5			392				186	
125	103				111			
250	200				142			
500	488				211			
1250	1176				564			
2500	1852				1048			
5000	3696				2352			



Ames test

別紙5

被験物質: 検体A(分解物), 検体B(分解物), 検体C(分解物), 検体D(分解物) (100℃、2日間)

strain: *E. coli* WP2 uvrA/pKM101

S9: PB+5,6-BF誘導rat liver 50 μ L/plate

solvent: Water

without S9

2006.6.27

μL/plate		検体A(分解物)				検体B(分解物)						検体C(分解物)						検体D(分解物)											
		2006.6.16				2006.6.6		2006.6.16				average	SD	2006.6.7		2006.6.16				average	SD	2006.6.7		2006.6.16				average	SD
		#1	#2	average	#1	#2	#1	#2	average	SD	#1			#2	#1	#2	average	SD	#1			#2	#1	#2	average	SD			
0	29	25	27	33	33	32	29	32	1.9	55	64	26	23	42	20.6	49	69	30	32	45	18.1								
1	37	35	36	37	38	37	45	39	3.9	76	72	35	36	55	22.3	98	86	33	30	62	35.3								
2.5	39	34	37	36	34	34	38	36	1.9	99	108	38	38	71	38.0	92	96	42	28	65	34.6								
5	46	47	47	50	43	41	35	42	6.2	121	117	43	45	82	43.3	74	103	30	37	61	34.0								
10	48	54	51	42	46	36	48	43	5.3	58	93	40	37	57	25.7	81	80	30	33	56	28.3								
25	83	81	82	61	50	60	53	56	5.4	146	131	52	53	96	50.0	137	128	46	46	89	50.1								
50	131	130	131	69	53	57	57	59	6.9	182	166	54	67	117	66.1	151	168	60	46	106	62.1								
77				55				55																					
100	259	252	256			77	72	75		170	166	82	82	125	49.7	161	171	73	70	119	54.7								

with S9

μL/plate	検体A(分解物)			検体B(分解物)							検体C(分解物)							検体D(分解物)						
	2006.6.21			2006.6.6		2006.6.21		average	SD	2006.6.7		2006.6.21		average	SD	2006.6.7		2006.6.21		average	SD			
	#1	#2	average	#1	#2	#1	#2			#1	#2	#1	#2			#1	#2	#1	#2					
0	55	64	60	50	47	50	52	50	2.1	64	73	55	64	64	7.3	55	71	40	47	53	13.3			
1	83	83	83	52	41	70	57	55	12.0	70	77	64	70	70	5.3	82	75	72	70	75	5.3			
2.5	96	82	89	59	59	70	72	65	7.0	68	78	71	67	71	5.0	84	98	41	55	70	26.1			
5	81	87	84	61	62	87	73	71	12.1	95	79	59	62	74	16.7	90	91	52	47	70	23.8			
10	78	70	74	47	63	58	60	57	7.0	81	82	41	44	62	22.6	84	84	36	38	61	27.1			
25	100	136	118	77	88	83	70	80	7.8	99	89	68	53	77	20.7	116	124	48	57	86	39.3			
50	118	94	106	69	68	92	81	78	11.3	120	125	72	64	95	31.7	139	141	41	59	95	52.5			
100	91	118	105			96	101	99		142	134	73	63	103	40.8	153	140	60	71	106	47.3			

