

Adipic acid (アジピン酸)

Chemical Name:	Adipic acid
Synonym	1,4-Butanedicarboxylic acid Hexanedioic acid
Molecular weight:	146.14
Melting point:	153°C
Boiling point:	337°C
Chemical Structure	<chem>HOOC(CH2)4COOH</chem>
CAS No:	124-04-9
MITI No:	(2)-858
Source of Substance:	Tokyo Kasei Kogyo Co. Ltd
Lot. No.:	AL01
Purity:	Guaranteed reagent
Vehicle:	DMSO

Mutagenicity
in Bacterial Test: Negative

IARC Evaluation: not yet cited

Judgement
Specific Mutagenicity
Positive
Control

Con. μg/ plate	Experimental Data											
	Number of Revertants/plate											
	Base-substitution						Frame-shift					
	TA100		TA1535		WP2uvrA		TA98		TA1537		TA1538	
S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	
DMSO	(166)	(187)	(31)	(12)	(31)	(30)	(21)	(59)	(9)	(16)	(15)	(31)
	144	192	31	14	25	35	21	61	13	14	21	36
100	(172)	(177)	(31)	(14)	(27)	(39)	(23)	(55)	(11)	(9)	(24)	(33)
	146	182	24	16	16	39	21	52	12	11	21	38
	148	183	16	19	26	42	19	50	9	13	26	23
200	(147)	(183)	(20)	(18)	(21)	(41)	(20)	(51)	(11)	(12)	(24)	(31)
	166	152	40	11	24	20	14	38	8	6	18	27
	156	136	35	12	28	38	23	62	7	8	10	25
500	(161)	(144)	(38)	(12)	(26)	(29)	(19)	(50)	(8)	(7)	(14)	(26)
	166	158	38	7	19	30	21	42	7	8	14	29
	158	168	34	8	16	25	23	52	6	13	11	33
1000	(162)	(163)	(36)	(8)	(18)	(28)	(22)	(47)	(7)	(11)	(13)	(31)
	147	166	34	8	31	31	28	60	5	8	11	32
	180	164	38	8	14	41	22	52	7	8	16	30
2000	(164)	(165)	(36)	(8)	(23)	(36)	(25)	(56)	(6)	(8)	(14)	(31)
	183	185	38	13	27	22	28	38	11	11*	26	22*
	178	177	23	21	26	33	23	48	5	6*	21	24*
5000	(181)	(181)	(31)	(17)	(26)	(28)	(26)	(43)	(8)	(9*)	(24)	(23*)
	0*	140*	0*	0*	21*	48*	18	33*	0*	0*	0*	0*
	0*	142*	0*	0*	21*	35*	22	40*	0*	0*	0*	0*
10000	(0*)	(141*)	(0*)	(0*)	(21*)	(42*)	(20)	(37*)	(0*)	(0*)	(0*)	(0*)
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	AF2	2AA 0.5	NaN ₃	2AA	AF2	2AA	AF2	2AA	9AA	2AA	4NQO	2AA
	(756)	(705)	(354)	(190)	(274)	(1436)	(558)	(508)	(126)	(397)	(431)	(521)