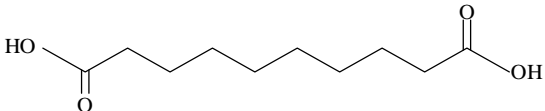


## Sebacic acid (セバシン酸)

## Experimental Data-1

(B9814-1/2)

Chemical Name	: <u>Sebacic acid</u>
	: <u>Decanedioic acid</u>
	: <u>1,8-Octanedicarboxylic acid</u>
Molecular Weight	: 202.25
Melting Point	: 134.5°C [Merck]
Boiling Point	: 294.5°C [Merck]
Flashing Point	: -
Molecular Formula	: C <sub>10</sub> H <sub>18</sub> O <sub>4</sub>
Chemical Structure	
CAS No.	: 111-20-6
MITI No.	: (2)-878
ML No.	: -
Specified Chemical Substances	: -
Source of Substance	: Tokyo Kasei Kogyo Co., Ltd.
Lot No.	: GE01
Purity	: >98%
Vehicle	: DMSO

Mutagenicity in Bacterial Test ; Negative

IARC Evaluation ; not yet cited

Conc. μ g/plate	Number of Revertants/plate									
	Base-substitution						Frame-shift			
	TA100		TA1535		WP2uvrA/pKM101		TA98		TA1537	
DMSO	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
		( 164 )	( 156 )	( 9 )	( 8 )	( 43 )	( 60 )	( 16 )	( 22 )	( 6 )
1 .22	170	215	5	13	24	47	20	24	6	6
	213	202	9	11	41	69	17	11	8	6
4 .88	( 192 )	( 209 )	( 7 )	( 12 )	( 33 )	( 58 )	( 19 )	( 18 )	( 7 )	( 6 )
	179	199	6	7	44	47	14	30	6	8
19 .5	181	191	7	7	52	62	20	25	6	5
	( 180 )	( 195 )	( 7 )	( 7 )	( 48 )	( 55 )	( 17 )	( 28 )	( 6 )	( 7 )
78 .1	171	201	7	9	45	57	18	28	11	11
	172	195	6	6	53	70	11	17	6	10
313	( 172 )	( 198 )	( 7 )	( 8 )	( 49 )	( 64 )	( 15 )	( 23 )	( 9 )	( 11 )
	233	174	11	5	51	45	7	26	6	9
1250	173	180	7	8	44	61	10	14	10	11
	( 203 )	( 177 )	( 9 )	( 7 )	( 48 )	( 53 )	( 9 )	( 20 )	( 8 )	( 10 )
5000	186	183	5	8	31	62	10	20	5	8
	158	171	8	13	36	81	13	20	6	7
Judgement	( 172 )	( 177 )	( 7 )	( 11 )	( 34 )	( 72 )	( 12 )	( 20 )	( 6 )	( 8 )
	160	205	14	6	47	63	11	21	11	11
Specific Mutagenicity	164	178	7	9	41	53	16	22	10	5
	( 162 )	( 192 )	( 11 )	( 8 )	( 44 )	( 58 )	( 14 )	( 22 )	( 11 )	( 8 )
Positive Control	160	162	8	13	34	61	10	28	6	8
	160	157	10	9	46	56	18	16	6	11
	( 160 )	( 160 )	( 9 )	( 11 )	( 40 )	( 59 )	( 14 )	( 22 )	( 6 )	( 10 )
	-	-	-	-	-	-	-	-	-	-
	AF-2	2-AA	NaN <sub>3</sub>	2-AA	AF-2	2-AA	AF-2	2-AA	9-AA	2-AA
	( 662 )	( 1147 )	( 354 )	( 250 )	( 676 )	( 737 )	( 411 )	( 382 )	( 595 )	( 153 )

Experimental Data-2

(B9814-2/2)

Conc. μ g/plate	Number of Revertants/plate									
	Base-substitution						Frame-shift			
	TA100		TA1535		WP2uvrA/pKM101		TA98		TA1537	
DMSO	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
	( 170 )	( 181 )	( 8 )	( 10 )	( 36 )	( 65 )	( 17 )	( 27 )	( 7 )	( 7 )
313	170	188	6	11	18	63	16	29	5	9
	( 170 )	( 177 )	( 10 )	( 13 )	( 27 )	( 73 )	( 16 )	( 25 )	( 6 )	( 6 )
625	160	174	6	5	46	74	13	28	7	11
	( 172 )	( 173 )	( 8 )	( 7 )	( 47 )	( 71 )	( 16 )	( 25 )	( 9 )	( 11 )
1250	173	195	8	10	38	53	28	31	6	10
	( 168 )	( 190 )	( 9 )	( 9 )	( 37 )	( 65 )	( 26 )	( 31 )	( 5 )	( 9 )
2500	176	152	10	10	45	70	17	23	6	7
	( 183 )	( 173 )	( 10 )	( 12 )	( 47 )	( 66 )	( 16 )	( 27 )	( 7 )	( 9 )
5000	167	187	6	11	52	67	11	25	9	8
	( 167 )	( 171 )	( 9 )	( 11 )	( 46 )	( 66 )	( 15 )	( 24 )	( 9 )	( 9 )
Judgement	—	—	—	—	—	—	—	—	—	—
Specific Mutagenicity										
Positive Control	AF-2 ( 719 )	2-AA ( 1255 )	NaN <sub>3</sub> ( 396 )	2-AA ( 266 )	AF-2 ( 944 )	2-AA ( 911 )	AF-2 ( 513 )	2-AA ( 425 )	9-AA ( 437 )	2-AA ( 179 )