[８] ヒドラジン

試験系	試験方法	使用生物種・細胞株	試験結果 代謝活性化系 あり	試験結果 代謝活性化系 なし	文献番号
in vitro	復帰突然変異	ネズミチフス菌 TA100	－	(＋)	1
				＋	2
			＋		3
			＋	－	4
			＋	－	
			＋	－	
			－	－	5
			－	－	
			－	－	
			－	－	
			－	－	
			－	－	
		ネズミチフス菌 TA1535	＋	＋	6
			＋	＋	
			＋	＋	
			＋	＋	
			＋	＋	
				＋	2
			＋		7
			＋		
			＋	－	8
			＋	－	
			＋	－	
			－	－	4
		ネズミチフス菌 TA1537	－	－	4 他
			－	－	
			－	－	
			－	－	
			－	－	
			－	－	
			－	－	
			－	－	
			－	－	
			－		7
		ネズミチフス菌 TA1538	－	－	9 他
			－	－	
			－	－	
			－	－	
			－	－	
			－	－	
			－		7 他
			－		
		ネズミチフス菌 TA98	＋		3
			－	－	9 他
			－	－	
			－	－	
			－	－	

			−	−	
			−	−	
			−	−	
			−	−	
			−	−	
			−	−	
		ネズミチフス菌 TA1530		＋	10
		ネズミチフス菌 TA92	−	−	4
		ネズミチフス菌 G46	＋		7
		大腸菌 WP2 uvrA pKM101	＋	＋	11
		大腸菌 WP2 uvrA	＋	＋	12 他
			＋	＋	
				＋	13 他
				＋	
				＋	
			＋	−	11
		大腸菌 WP2 B/ r	＋	−	11
		大腸菌 CM871 lexArecAuvrA		＋	13
		酵母菌 XV 185- 14C		＋	14
	前進突然変異	ネズミチフス菌	＋		15
		酵母菌	＋	＋	16
		酵母菌 rad2- 1		＋	17
		酵母菌 XY597 strains,		＋	18
	復帰突然変異または前進突然変異	酵母菌 K- 12/ 343/ 113,	＋	＋	19
	遺伝子変換によるホモ接合体	酵母菌 JD1	＋	＋	20
		酵母菌 D7	＋	＋	21
	染色体異数性	酵母菌 D6	＋	＋	22
	DNA 鎖切断	ラット肝細胞		＋	23
	不定期 DNA 合成	ラット初代培養肝細胞		−	24
				＋	24
	遺伝子突然変異	マウスリンパ腫 L5178Y 細胞, tk 座位		＋	25
				−	26
				−	25
		チャイニーズハムスター卵巣 CHO 細胞	−	−	27
			−	−	28
		ヒト線維芽細胞	＋	−	29
	染色体異常	ラット肝細胞 (RL 1)		−	30
		チャイニーズハムスター卵巣 CHO 細胞	＋	＋	31
	姉妹染色分体交換	チャイニーズハムスター卵巣 CHO 細胞		＋	32
			−	−	31 他
			−	−	
	DNA 付加物	M13mp18 viral DNA		＋	33
in vivo	体細胞突然変異及び組換え	ショウジョウバエ		＋	34 他
				＋	
				＋	
	伴性劣性致死突然変異	ショウジョウバエ		(＋)	35
				−	36
	修復試験	マウス、大腸菌 K12/ uvrB/ recA		−	37
	DNA 鎖切断	マウス肝臓及び肺		＋	38

	マウススポット試験	マウス		＋	39
	姉妹染色分体交換	マウス骨髄細胞		－	40
		マウス肝臓		－	40
	小核誘発	マウス骨髄細胞		＋	41
				－	42 他
				－	
	優性致死（染色体異常）	マウス		－	43
	N7-メチルグアニン及び O6 –メチルグアニン形成	ラット肝臓 DNA		＋	44 他
				＋	
				＋	
				＋	
				＋	
	N7-メチルグアニン及び O6 –メチルグアニン形成	シリアンゴールデンハムスター肝臓 DNA		＋	45 他
				＋	
	N7-メチルグアニン形成	マウス肝臓 DNA		＋	46
	N7-メチルグアニン形成	マウス肝臓 RNA		＋	46
	精子形態異常	マウス		－	47
				－	48
評価結果	上記のとおり、エームス試験で遺伝子突然変異を、哺乳動物の培養細胞で染色体異常を認め、in vivo 試験系でも DNA 傷害が認められたが、マウスリンパ腫瘍を用いた試験系で陰性であった。				

注： 1）＋ 陽性； (＋) 弱い陽性 ；－ 陰性； * 結論が出なかったもの
空欄；試験系がないか、試験されなかったもの

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