

日本接触皮膚炎学会共同研究 至適濃度

(1976～2000年, 新しい年度順)

実施年度	試料	濃度/基剤	陽性例数/施行例数 (陽性率%)	至適濃度
2000	Ketoprofen	3%/pet	4/230 (1.74%) (PPT)	○
		1%/pet	2/230 (0.87%) (PPT)	
	Tiaprofenic acid	3%/pet	11/230 (4.78%) (PPT)	○
		1%/pet	5/230 (2.17%) (PPT)	
	Suprofen	3%/pet	4/230 (1.74%) (PPT)	○
		1%/pet	0/230 (0.00%) (PPT)	
Oxybenzone	1%/pet	0/230 (0.00%) (PPT)		
1999	Fradiomycin sulfate	20%/pet	71/811 (8.75%)	○
		10%/pet	60/71 (84.5 % (20%に陽性例中))	
		5%/pet	56/71 (78.9 % (20%に陽性例中))	
	Gentamicin sulfate	20%/pet	74/811 (9.12%)	○
		10%/pet	59/74 (83.1 % (20%に陽性例中))	
		5%/pet	40/74 (56.3 % (20%に陽性例中))	
	Crotamiton	5%/pet	6/808 (0.74%)	○
		2.5%/pet	3/6 (50.0 % (5%に陽性例中))	
		1%/pet	2/6 (33.3 % (5%に陽性例中))	
1998	Anderm ointment	as is	10/535 (1.9 %)	
	Anderm cream	as is	15/535 (2.9 %)	
	Bufexamac	5%/pet	10/535 (1.9 %)	
	Vesicum ointment	as is	15/535 (2.9 %)	
	Vesicum cream	as is	19/535 (3.5 %)	
	Ibuprofen piconol	5%/pet	13/535 (2.5 %)	
	Conbec ointment	as is	5/535 (1.0 %)	
	Conbec cream	as is	5/535 (1.0 %)	
	ufenamate	5%/pet	3/535 (0.6 %)	
1997	Budeson ointment	as is	8/511 (1.6 %)	
	Budeson cream	as is	10/510 (2.0 %)	
	Visderm ointment	as is	2/509 (0.4 %)	
	Visderm cream	as is	1/510 (0.2 %)	
	Locoid ointment	as is	2/512 (0.4 %)	
	Locoid cream	as is	4/510 (0.8 %)	
	Tin chloride	0.5%/pet	1/509 (0.2 %)	
		1.0%/pet	5/509 (1 %)	
		2.0%/pet	10/510 (2 %)	○
1996	Zinc sulfate	0.1%/pet	1/478 (0.21%)	
		0.5%/pet	5/478 (1.05%)	
		1.0%/pet	10/478 (2.09%)	
	Zinc chloride	0.1%/pet	3/478 (0.63%)	
		0.5%/pet	19/478 (3.98%)	
		1.0%/pet	50/478 (10.46%)	
	Manganese chloride	0.1%/pet	1/478 (0.21%)	
		0.5%/pet	9/478 (1.87%)	
		1.0%/pet	31/478 (6.47%)	
1994	Thimerosal	0.1%/pet	86/1480 (5.8 %)	○
		0.05%/pet	51/1355 (3.8 %)	
	Ammoniated mercuric chloride	1.0%/pet	105/1514 (6.9 %)	
Mercuric chloride	0.05%/aq	103/1361 (7.6 %)	○	
1993	Gold trichloride acid trihydrate	0.4%/pet	114/701 (16.3 %)	
		0.2%/pet	51/698 (7.3 %)	
		0.1%/pet	10/701 (1.4 %)	

PPT : photopatch test, pet : 白色ワセリン, aq : 精製水

実施年度	試料	濃度/基剤	陽性例数/施行例数 (陽性率%)	至適濃度			
1993	Gold trichloride acid tetrahydrate	0.4%/pet	34/703 (4.8 %)	○			
		0.2%/pet	114/699 (2.0 %)				
		0.1%/pet	12/701 (1.7 %)				
	Sodium aurothiomalate	1.0%/pet	56/703 (8.3 %)				
		0.5%/pet	39/701 (5.6 %)				
		0.25%/pet	27/701 (3.9 %)				
	Gold sodium thiosulfate	1.0%/pet	98/701 (14.0 %)				
		0.5%/pet	80/697 (11.5 %)				
		0.25%/pet	61/701 (8.7 %)				
	Ammoniated mercuric chloride Kathon CG	1.0%/pet	56/703 (8.0 %)				
100 ppm/aq		10/706 (1.4 %)					
1992	Formaldehyde	2%/aq	53/964 (5.5 %)	○			
		1%/aq	30/967 (3.1 %)				
		0.5%/aq	10/963 (1.0 %)				
		0.2%/aq	5/964 (0.5 %)				
	Kathon CG	100 ppm/aq	8/975 (0.82%)		要再検討		
		50 ppm/aq	7/975 (0.72%)				
		25 ppm/aq	5/975 (0.51%)				
	R-202 (市販品, 精製品, 不純物)	1%/pet	3者のいずれかに陽性反応を示したものの 14/724				
		0.1%/pet					
1991	Kathon CG	100 ppm/aq	5/830 (0.60%)	○			
		50 ppm/aq	3/829 (0.36%)				
		25 ppm/aq	3/829 (0.36%)				
	Benzyl paraben	5%/pet	2/763 (0.26%)				
		3%/pet	2/763 (0.26%)				
	Propyl paraben	5%/pet	1/764 (0.13%)				
		3%/pet	1/763 (0.13%)				
	Tinuvin P	2%/pet	10/765 (1.31%)		○		
		1%/pet	9/765 (1.18%)				
		0.5%/pet	8/765 (1.05%)				
赤色225号 Sudan I PPD	1%/pet	6/770 (0.78%)					
	0.1%/pet	7/760 (0.92%)					
	1%/pet	60/769 (7.80%)					
1990	エステルガム	2%/pet	7/492 (1.42%)	○(2%以上)			
		1%/pet	4/492 (0.81%)				
		0.5%/pet	3/492 (0.61%)				
	ロジン	20%/pet	13/493 (2.64%)				
		2%/pet	1/492 (0.20%)				
		25%/pet	27/499 (5.41%)				
	アビエチン酸 ペルーバルサム Kathon CG	100 ppm/aq	5/500 (1.00%)		○		
		50 ppm/aq	5/500 (1.00%)				
		25 ppm/aq	4/500 (0.80%)				
	Metyl paraben	5%/pet	1/494 (0.20%)			○	
3%/pet		0/494 (0.0 %)					
Butyl paraben	5%/pet	2/494 (0.40%)	○				
	3%/pet	2/494 (0.40%)					
1989	Mercuric chloride	0.2%/aq		75/486 (15.4 %)			○
		0.1%/aq		51/488 (10.5 %)			
		0.05%/aq		40/488 (8.2 %)			
	Ammoniated mercuric chloride	1%/pet		38/488 (7.8 %)			
	Benzalkonium chloride	0.1%/aq		81/490 (16.5 %)			
		0.05%/aq		28/490 (5.7 %)			
		0.02%/aq		8/487 (1.6 %)			

pet：白色ワセリン，aq：精製水

実施年度	試料	濃度/基剤	陽性例数/施行例数 (陽性率%)	至適濃度
1985	Farnesol	10%/pet 5%/pet 2%/pet	5/457 (1.1 %) 5/456 (1.1 %) 1/454 (0.2 %)	○
1984	PPD PTD PAP OAP Cinnamic alcohol Cinnamic aldehyde	1%/pet 1%/pet 1%/pet 1%/pet 0.5%/pet 0.2%/pet 2%/pet 1%/pet 0.5%/pet 2%/pet 1%/pet 0.5%/pet	34/372 (9.1 %) 24/363 (6.5 %) 11/372 (3.0 %) 31/373 (8.3 %) 16/373 (4.3 %) 3/374 (0.8 %) 13/372 (3.5 %) 10/372 (2.7 %) 8/372 (2.2 %) 40/372 (10.8 %) 7/372 (1.9 %) 3/372 (0.8 %)	○ 0.5%未満 2%未満 1%以上
1983	PPD PTD OPD Geraniol (天然) Geraniol (合成)	1%/pet 1%/pet 1%/pet 20%/pet 10%/pet 5%/pet 20%/pet 10%/pet 5%/pet	26/382 (6.8 %) 16/381 (4.2 %) 34/383 (8.9 %) 20/383 (5.2 %) 13/383 (3.4 %) 8/383 (2.1 %) 18/383 (4.7 %) 14/383 (3.7 %) 11/383 (2.9 %)	10か5%
1982	精製 O-205 市販 O-205 Cinnamic alcohol Cinnamic aldehyde	1%/pet 1%/pet 5%/pet 2%/pet 1%/pet 0.5%/pet 0.2%/pet 0.1%/pet	3/436 (0.7 %) 2/436 (0.5 %) 11/396 (2.5 %) 10/434 (2.3 %) 8/435 (1.9 %) 2/435 (0.4 %) 0/435 (0.0 %) 0/436 (0.0 %)	○ 要再検討
1981	精製緑色3号 市販緑色3号 精製橙色201号 市販橙色201号 精製赤色104号 市販赤色14号 精製黄色フルオレセイン 精製赤色フルオレセイン 精製フルオレセインジアセテート Sudan I 赤色219号 Trans-Isoeugenol Eugenol Benzyl salicylate	1%/pet 1%/pet 1%/pet 1%/pet 1%/pet 1%/pet 1%/pet 1%/pet 1%/pet 0.1%/pet 1%/pet 5%/pet 2%/pet 1%/pet 5%/pet 2%/pet 1%/pet 5%/pet	PT : 0/360 PPT : 0/360 PT : 1/360 PPT : 0/360 PT : 1/360 PPT : 1/360 PT : 0/360 PPT : 1/360 PT : 0/360 PPT : 1/360 PT : 4/360 PPT : 0/360 PT : 0/187 PPT : 0/187 PT : 0/187 PPT : 0/187 PT : 0/187 PPT : 0/187 16/186 7/100 12/357 (3.56 %) 11/357 (3.08 %) 11/357 (3.08 %) 11/357 (3.08 %) 6/357 (1.7 %) 5/357 (1.40 %) 14/176 (7.9 %)	○ ○ ○ ○
1980	精製赤色202号 市販赤色202号	1%/pet 1%/pet	PT : 3/577 PPT : 0/577 PT : 4/577 PPT : 1/577	

PPD : *p*-phenylenediamine, PTD : *p*-toluylenediamine, PAP : *p*-aminophenol, OAP : *o*-aminophenol
PT : patch test, PPT : photopatch test, pet : 白色ワセリン

実施年度	試料	濃度/基剤	陽性例数/施行例数 (陽性率%)	至適濃度
1980	精製赤色 204 号 市販赤色 226 号 市販赤色 204 号 精製赤色 226 号 Hydroxycitronellal	1%/pet	PT : 3/577 PPT : 0/577	○
		1%/pet	PT : 2/577 PPT : 0/577	
		1%/pet	PT : 4/577 PPT : 0/577	
		1%/pet	PT : 3/577 PPT : 0/577	
		10%/pet	20/571 (3.5%)	
		5%/pet	13/571 (2.3%)	
1979	天然 Sandalwood	10%/pet	5/327 (1.5%)	○
		2%/pet	3/327 (0.9%)	
		1%/pet	4/327 (1.2%)	
	合成 Sandalwood	10%/pet	8/327 (2.4%)	○
		2%/pet	5/327 (1.5%)	
		1%/pet	2/327 (0.6%)	
	Santalol	10%/pet	5/327 (1.5%)	○
		2%/pet	3/327 (0.9%)	
		1%/pet	1/327 (0.3%)	
	R-106	1%/pet	1/257 (0.4%)	
	R-206	1%/pet	0/273 (0.0%)	
	R-219	1%/pet	7/276 (2.5%)	
	R-223	1%/pet	2/260 (0.8%)	
	R-226	1%/pet	1/278 (0.4%)	
	R-404	1%/pet	8/256 (3.1%)	
	Y-4A1	1%/pet	2/280 (0.7%)	
	Y-203	1%/pet	0/264 (0.0%)	
	Y-204	1%/pet	8/261 (3.0%)	
	O-203	1%/pet	1/273 (0.4%)	
	O-204	1%/pet	2/273 (0.7%)	
	B-203	1%/pet	0/257 (0.0%)	
	G-202	1%/pet	0/258 (0.0%)	
	V-401	1%/pet	0/257 (0.0%)	
	R-3A1	1%/pet	0/191 (0.0%)	
	R-202	1%/pet	1/190 (0.5%)	
	R-203	1%/pet	0/173 (0.0%)	
	R-204	1%/pet	1/190 (0.5%)	
	R-213	1%/pet	0/170 (0.0%)	
	R-220	1%/pet	0/171 (0.0%)	
	R-401	1%/pet	0/170 (0.0%)	
	Y-5A1	1%/pet	0/191 (0.0%)	
	Y-205	1%/pet	0/188 (0.0%)	
	Y-401	1%/pet	1/188 (0.5%)	
Y-403	1%/pet	0/173 (0.0%)		
B-1	1%/pet	0/172 (0.0%)		
B-204	1%/pet	0/185 (0.0%)		
B-404	1%/pet	2/169 (1.2%)		
G-201	1%/pet	0/170 (0.0%)		
1978	Benzyl alcohol	10%/pet	2/394 (0.5%)	○
		5%/pet	1/392 (0.3%)	
		1%/pet	0/392 (0.0%)	
	Benzyl salicylate	5%/pet	23/394 (5.9%)	○
		2%/pet	9/394 (2.3%)	
		1%/pet	6/394 (1.6%)	
市販 O-203	5%/PEG	黒皮症 : 2/78 (2.6%)		
市販 O-203	1%/pet	黒皮症 : 0/75 (0.0%)		
		対照者 : 0/49 (0.0%)		

PT : patch test, PPT : photopatch test, pet : 白色ワセリン, PEG : polyethylene glycol

実施年度	試料	濃度/基剤	陽性例数/施行例数 (陽性率%)	至適濃度		
1978	精製O-203	1%/pet	黒皮症： 0/75 (0.0%) 対照者： 0/49 (0.0%)			
	市販R-205	1%/pet	黒皮症： 0/77 (0.0%) 対照者： 0/51 (0.0%)			
	精製R-205	1%/pet	黒皮症： 0/77 (0.0%) 対照者： 0/51 (0.0%)			
	市販R-206	5%/PEG 1%/pet	黒皮症： 0/73 (0.0%) 黒皮症： 1/69 (1.5%) 対照者： 0/46 (0.0%)			
	市販R-219	5%/PEG 1%/pet	黒皮症： 23/76 (34.2%) 黒皮症： 21/77 (27.3%) 対照者： 0/51 (0.0%)			
	精製R-219	1%/pet	黒皮症： 23/77 (29.9%) 対照者： 0/51 (0.0%)			
	市販R-221	5%/PEG 1%/pet	黒皮症： 4/77 (6.5%) 黒皮症： 1/75 (1.3%) 対照者： 0/51 (0.0%)			
	精製R-221	1%/pet	黒皮症： 0/75 (0.0%) 対照者： 0/51 (0.0%)			
	市販R-225	5%/PEG 1%/pet	黒皮症： 36/78 (46.2%) 黒皮症： 26/77 (33.8%) 対照者： 1/51 (2.0%)			
	精製R-225	1%/pet	黒皮症： 1/77 (1.7%) 対照者： 0/51 (0.0%)			
	精製PAN	1%/pet	黒皮症： 35/81 (46.9%) 対照者： 1/52 (1.9%)			
		0.1%/pet	黒皮症： 36/91 (39.6%) 対照者： 1/51 (2.0%)			
	1977	ジャスミン・アブソルート	20%/pet 10%/pet 5%/pet		3/123 (2.4%) 2/123 (1.6%) 1/124 (0.8%)	○ ○
		イランイラン油#861	20%/pet 10%/pet 5%/pet		3/116 (2.6%) 2/116 (1.7%) 1/117 (0.9%)	
イランイラン油#862		20%/pet 10%/pet 5%/pet	4/97 (4.1%) 3/97 (3.1%) 2/97 (2.1%)			
イランイラン油#863		20%/pet 10%/pet 5%/pet	2/86 (2.3%) 2/86 (2.3%) 2/86 (2.3%)			
イランイラン油#864		20%/pet 10%/pet 5%/pet	3/64 (4.7%) 1/64 (1.6%) 0/64 (0.0%)			
イランイラン油#865		20%/pet 10%/pet 5%/pet	2/64 (3.1%) 1/64 (1.6%) 1/64 (1.6%)			
イランイラン油#866		20%/pet 10%/pet 5%/pet	2/64 (3.1%) 2/64 (3.1%) 1/64 (1.6%)			
イランイラン油#867		20%/pet 10%/pet 5%/pet	2/64 (3.1%) 1/64 (1.6%) 1/63 (1.6%)			
R-3A1		5%/PEG	0/218 (0.0%)			
R-204		5%/PEG	0/219 (0.0%)			

pet：白色ワセリン， PEG：polyethylene glycol

実施年度	試料	濃度/基剤	陽性例数/施行例数 (陽性率%)	至適濃度
1977	R-206	5%/PEG	0/219 (0.0%)	
	R-213	5%/PEG	0/212 (0.0%)	
	R-219	5%/PEG	9/219 (4.1%)	
	R-221	5%/PEG	2/220 (0.9%)	
	R-225	5%/PEG	15/209 (7.2%)	
	R-226	5%/PEG	3/217 (1.4%)	
	R-401	5%/PEG	1/207 (0.5%)	
	Y-203	5%/PEG	0/208 (0.0%)	
	Y-204	5%/PEG	10/208 (4.8%)	
	O-203	5%/PEG	0/213 (0.0%)	
	O-204	5%/PEG	0/205 (0.0%)	
	B-1	5%/PEG	1/205 (0.5%)	
	B-202	5%/PEG	0/204 (0.0%)	
	B-404	5%/PEG	0/204 (0.0%)	
G-201	5%/PEG	0/198 (0.0%)		
1976	ローズ油	20%/pet	19/145 (13.1%)	○
		2%/pet	10/153 (6.5%)	
		1%/pet	8/153 (5.2%)	
	ベルガモット油	10%/pet	5/133 (3.8%)	○
		2%/pet	7/141 (5.0%)	
		1%/pet	4/141 (2.8%)	
	ヨード	2%/グリセリン	48/83 (57.8%)	○
		0.5%/グリセリン	35/90 (38.9%)	
		0.2%/グリセリン	11/87 (12.6%)	
		0.1%/グリセリン	7/91 (7.7%)	
		5%/PEG	21/147 (14.3%)	
	R-3A1	5%/PEG	21/147 (14.3%)	
	R-204	5%/PEG	20/149 (13.4%)	
	R-206	5%/PEG	35/160 (21.9%)	
	R-219	5%/PEG	57/162 (35.2%)	
	R-221	5%/PEG	40/155 (25.8%)	
	R-226	5%/PEG	20/149 (13.4%)	
	Y-4A1	5%/PEG	8/147 (5.4%)	
	Y-205	5%/PEG	6/147 (4.1%)	
	Y-401	5%/PEG	15/155 (9.7%)	
	O-203	5%/PEG	27/157 (17.2%)	
	B-204	5%/PEG	11/140 (7.9%)	
	6価クローム	0.5%/Y.pet	29/63 (46.0%)	
		0.5%/aq	25/97 (25.8%)	
		0.5%/W.pet	27/103 (26.2%)	
	Co++	0.5%/Y.pet	7/20 (35.0%)	
		0.5%/aq	7/52 (13.5%)	
		0.5%/W.pet	13/59 (22.0%)	
	Ni++	0.5%/Y.pet	5/20 (25.0%)	
		0.5%/aq	5/52 (9.6%)	
		0.5%/W.pet	6/58 (10.3%)	

PEG : polyethylene glycol, pet : 白色ワセリン, Y.pet : 黄色ワセリン, W.pet : 白色ワセリン