



Enalapril	Vasodilators (ACE inhibitors)					DM	○			医	*1、使-Den (8)			228
Enalapril maleate										医	使-N (8)			229
Endosulfan	Organochlorine	115-29-7	2,3,6	18,11,3,19,27			○			農		2		230
Endrin			2	18,17,3,19,27			○			農				231
Enterodiol	Lignan		4,5	-						天				232
Enterolactone	Lignan		3,4	-						天				233
Ephedrine	Asthma, decongestion	nasal 299-42-3	6,7	-		C	○			医、天	F(8)			234
Ephedrine, sulfate		154-45-0												235
Ephedrines	Decongestants					C				医	*1			236
2,3-Epoxypropan-1-ol				14						工				237
Eqval			2	-		B/C				天				238
Ergosterol	Phytosterols									天	下(1)			239
Erythromycin	Macrolid antibiotics	114-07-8	6,7			B	○	S:ND		医	地(-),河(1),下,表, 地(-)G,使-Y,G(8)	PEC(8)		240
Erythromycin ethylsuccinate										医	使-Y(8)			241
Estradiol (Oestradiol)	Steroids, Contraceptives, Sex hormone	50-28-2	2,3,6	-		X	○			医	下(1),使-Y,Den(8)		2	242
17 $\alpha$ -Oestradiol	Hormone									天	下,表-Ne(8)			243
17 $\beta$ -Oestradiol	Hormone									天	下-UK,Ne,G,Can, 表-G(-),Ne,飲- UK(-),STW(8), 使-Y(8)	STP- AS(11)		244
Oestradiol with progestogen 17 $\beta$ -estradiol-3( $\beta$ -D- glucuronide)										天				245
17 $\beta$ -Oestradiol-17-( $\beta$ -D- glucuronide)														新規
Estrogen (Oestrogens)	Hormone		3	17		XM	○	A:99.9%Rem B:92Rem A:64%Rem		天	STW(8),STP(10)	STP- AS(11)		246
Estrogens in comb. with gestoden or desogestrel								S:persistent		医	使-D,下,湖(8)	毒(8)		247
Oestrogen conjugated with progesterone											使(4)			248
Estrogen and diethylstilbestrol	Hormone										使-Y(8)			249
Oestrone	Hormone							SF:Persistent A:83%Rem B:67%Rem		天	十(8) 下-UK,Ne,G,Can, 表-G,Ne,飲-UK(-) ,STW(8), 飲,河,下(1),表-G(-) ,Ne,飲-UK,G,Ne	STP- AS(11)		250
Ethinyl estradiol (Ethinylloestradiol)	Steroids, Contraceptives, Hormone	57-63-6	1,2,3,7	17		X				医				251
														252







Ifosfamide	Antineoplastics, Cytostatic agents	3778-73-2	1,7								POTW,表(-),病 (3),下,表(-)-G, STP(8),飲-G				335
Imidazolidine-2-thione				14											336
Indol[3,2-b]carbazole			2												337
Indometacin (Indomethacine)	Anti-inflammatory, antiphlogistic	53-86-1	1,5,6		B/D						地(1),F(1,2), POTW-G,表,STW- Br(3),使,表-G,下 -G,Br,STW(8),下 -Br(12)		I		
Influenza vaccine					CM						使-N(8)				338
Iohexol		66108-95-0	1									(3)			339
Iomeprol	Iodinated Contrast Media	60166-93-0	1								STP,河,地,病-				340
Iopamidol	Iodinated Contrast Media										地,飲(1),STW (3),STP,河,地,病- G(13)				新規
Iopromide	Iodinated Contrast Media	73334-07-3	1,6								地,飲(1),河,STW (3),STP,河,地,病- (13)	PEC(8)	2		341
Iothalamic acid	Iodinated Contrast Media										地(1),F(1,2), POTW-G,表,STW- Br(3),使,表-G,下 -G,Br,STW(8),下 -Br(12)STP,河,地, 癩-G(13)				342
Iotrolan		79770-24-0	1									(3)			343
Ioxithalamic acid	Iodinated Contrast Media										地(1)				344
Ioxynil		1689-83-4		14											345
Ipratropium					BM										346
Ipratropium bromide											使-N(8)				347
Ipropolatumum		303-45-7	6												348
Isoniazid		54-85-3	5		C							PEC(8)			349
		37271-10-6													
		41466-07-3													
		62229-51-0													
		7640-37-1			CM						使-N(8),STP,河, 病-G(13)				350
Isosorbide mononitrate															
Isotretinoin	Hormonally active agents (Androgens)				XM										351
Ispaghula husk															352
Kaempferol			2	17,							使(8)				353
Kainic acid		487-79-6	3												354
															355











Paracetamol	Mild analgesics	103-90-2	6,7	B	OF: positive(57 %) S:RD after Acclimatisation A:>99%Rem.	医	使-Y, Den, 下, STW (8)	播、 PEC(8)	1
Parathion			2		○	農			
Paroxetine	Antidepressants (SSRIs)	61869-06-7	1	BM	○	医	*1	PEC(8)	
Paroxetine hydrochloride							使-N(8)		
<b>Penicillamine-D</b>			5	D	○	医			
		52-67-5							476
		5139-02-6							
Penicillin-G, Penicillin-V	Penicillins (Antibiotics)	1406-05-9	5,6	B		医	地・河(1)、使、下、表、 地-G(-)(8)		477
Phenoxymethylpenicillin (penicillin V)	Penicillins (Antibiotics)			B		医	地(-)、河(-)(1)、下、 表、地-G(-)、使-N,G		478
Pentachlorophenol			5		○	農			479
Pentobarbital	Sedative			DM	○	医	地-US(8)		480
Perindopril (Erbumine)					○	医		PEC(8)	481
Phenazone (Antipyrine)	Analgesics, antiphlogistic	60-80-0	1,5	C		医	飲(1)、POTW-G、表 (3)、下、表、地-G、 STW(8)、飲-G		482
Phenelzine	Antidepressants (MAOIs)			C	○	医	*1		483
<b>Phenobarbital</b>			5	D	○	医			484
Phenobarbital				D		医		PEC(8)	485
Phensuximide	Anti-convulsant			D	○	医	地-US(8)		486
<b>Phenylpropanolamine</b>		492-41-1	6	C	○	医			487
		14838-15-4							488
N-(phenylsulfonyl)-sarcosine									489
<b>Phenylethanolamine</b>		57-41-0	5	D	○	医		安田	490
Phloretin			2,6			天		2	491
Pholcodine							使-N(8)		492
Phthalic acid			4		○	工			493
Piroxicam				B	○	医			494
Podocarpic Acid			6			天		2	495
Polychlorinated biphenyl									496
Potassium chloride	Mineral supplement	2,3,4,5	18,17,6,29,31	A	○	工	使-Den(8)		497
Pramipexole	Dopamine agonists (Anti-Parkinsonian)				○	医	*1		498
Prednisolone	Hormonally active agents (Anti-acne agents)			B	○	医	使-N(8)		499
Prednisone				B	○	医	*1		500
Primidon				D	○	医	飲(1)		501
<b>Procabazine</b>		671-16-9	3,5	D	○	医			502
Prochlorperazine				D	○	医			503
Prochlorperazine maleate						医	使-N(8)		

Progesterone	Hormone							医、天	表、飲、UK (8)				504
Promethazine		60-87-7	5					医					505
Propranolol	$\beta$ -blockers							医	下、表-G (8)	PEC(8)			506
Propranolol hydrochloride	$\beta$ -blockers							医	使-Y (8)	毒(8)			507
Propoxyphene	Analgesics (non-NSAIDs and narcotic)							医	使-G (8)				508
								医	*1				509
Propranolol	$\beta$ -blockers	525-66-6	1					医	地、下(1)、POTW-G、 表(3)、SIW (8)		1		510
Propylthiouracil		479-92-5	3	17				医					511
Propylphenazone	Analgesics		1					医	G,Den (3)、下、表、地 -G (8)				512
Pseudoephedrine hydrochloride								医	使-N (8)				513
Pyran copolymer			5					医					514
Quercetin			2	17,27,				天					515
Quinapril	Vasodilators (ACE inhibitors)							医	*1				516
Quinine								医					517
Quinine sulphate								医		PEC(8)			518
Quinidine								医	使(8)				519
Ramipril	Vasodilators (ACE inhibitors)							医	*1	PEC(8)			520
Ranitidine	Histamine (H-2) blockers							医	*1	PEC(8)			521
Ranitidine hydrochloride								医	使-N (8)				522
Rifluoperazine	Antipsychotics, CNS agents							医	*1				523
Riluzole	Amyotrophic lateral sclerosis							医	*1				524
Risperidone	Antipsychotics, CNS agents							医	*1	PEC(8)			525
Ropinore	Dopamine agonists (Anti-Parkinsonian)							医	*1				526
Roxithromycin	Macrolid antibiotics	80214-83-1	6					医	地(-)、河(1)、使、下、 表、地(-)G(8)		1		527
Salbutamol	Anti-asthmatic, $\beta$ 2-Sympathomimetics	18559-94-9	1					医	使-Y,Den、POTW、 表(3)、下、表-G、 STW (8)				528
Salicylic acid	Aspirin metabolite	69-72-7	1					医	POTW、表(3)、下、 G,US、表-G(8)	毒(8)			529
Salinomycin		53003-10-4											530
Salmeterol									使(4)				531
Sarsapogenin			6						使-N (8)	PEC(8)			532
											2		







Coccidiostatics										使(4)								631
Diuretics										使-Den (8)								632
Diuretics (loop)										使(4)								633
Emulsifying wax										使(8)								634
Estrogen /estradiol and estrone																		635
Estrogens in comb with gestoden or desogestrel																		636
Fish farms, feed additives										使(4)								637
Hypotensives (Hypotensiva)										使(4)、使-Den (8)								638
Lithium salts											PEC(8)							639
Oestrogens conjugated										使-Y (8)								640
PBDEs								2										641
Phthalates								3,4										642
Psycholeptics																		643
Steroids								3										644
Total Bioflavonoids								2										645

妊娠危険分類	数
A	2
AM	1
B	32
BM	37
C	39
CM	56
D	39
DM	15
X	2
XM	8

発生源毒性有り	338
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(H)環境運命 (Fate) 文献 8

- Sphere/condition  
 A: Activated sludge STW  
 S: Sewage treatment  
 B: Biological filter STW  
 C: Closed bottle test  
 OF: OECD Guideline 301F  
 OB: OECD Guideline 302B  
 L: Laboratory scale sewage  
 T: Treatment plant  
 SF: Soil and faeces

- Fate  
 Rem: Removal  
 RB: Readily Biodegradable  
 RD: readily Degradable  
 NB: Non-biodegradable  
 ND: Non-degradable  
 B: Biodegradable  
 Neg: Negative  
 I: Inherently Biodegradable  
 P: Persistent  
 Po: Positive



添付資料2 「環境中に検出される生理活性物質についての調査のまとめ」河川水、表層水のデータ

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\*文献1はグラフから読み取り値あり, MID:中央値, MAX:最大値

Compound	References	S			Concentration detected ( $\mu$ g/l)	LOD ( $\mu$ g/l)	sampling数	No.>LOD	Note
		分類	国	場所					
Acetaminophen (paracetamol)	3	表	G		nd				
	8	表	G		nd	150ng/L			
	3	表			0.34	0.05		23	MAX
Aspirin (Acetylsalicylic acid)	8	表	G		nd	500ng/L			
	8	表	G		nd	-			
	8	表	G		nd(MID), 160(90%), 340(MAX)ng/L	500ng/L			
5-Amino-2,4,6-triiodisophthalic	13	河	B		nd	0.02	12		

ATI)2,3-dihydroxy propyl)amide(ATH	13	河	B	nd	0.02	12
<i>Betaxolol</i>	3	表		0.028		
	8	表	G	nd-28ng/L	3ng/L	
	8	表	G	nd(MID),nd(90%),28(MA	10ng/L	
Bezafibrate	1	河	G	R,Rhine	0.25	38
	3	表	G	3.1		MAX
	8	表	G	380ng/L	-	
	8	表	G	nd-380ng/L	25ng/L	
	8	表	G	350(MID),1200(90%),310	25ng/L	
	8	表	G	100(MID),250(90%)ng/L	-	
	8	表	B	190(MAX)ng/L	10ng/L	
	12	河	B	nd	0.025	
<i>Bisoprolol</i>	3	表		2.9		MAX
	8	表	G	nd-124ng/l		
	8	表	G	nd(MID), 190(90%), 2900(MAX)ng/L	10ng/L	
Bleomycin	8	表	UK	nd-17ng/L	5ng/L	
Carazolol	3	表		0.11		MAX
	8	表	G	nd-124ng/L	3ng/L	
	8	表	G	nd(MID, 100(90%), 110(MAX)ng/L	10ng/L	
<i>Carbamazepine</i>	3	表	G	1.1		MAX
	8	表	G	250(MID), 820(90%), 1100(MAX)	30ng/L	
<i>Chloramphenicol</i>	1	河	G	nd		
	8	表	G	nd(MID) ,nd(90%), 60(MAX)ng/L	20ng/L	
<i>Chlortetracycline</i>	1	河	G	nd		
	8	表	G	nd	50ng/L	
<i>Clarithromycin</i>	1	河	G	up to 1.7		
	8	表	G	nd(MID),150(90%),260 (MAX)ng/L	20ng/L	
Clenbuterol	3	表	G	0.05		MAX

	8	表	G		nd	-			
	8	表	G		nd (MID), nd (90%) 500 (MAX) ng/L	10ng/L			
Clofibrate	1	河	G	R.Rhine	<0.15	0.05		37	
	3	表	US		nd				
	3	河			40ng/L				
	8	表	G		nd	30ng/L			
	12	表	B		nd-0.03	0.01			
	1	河	G		nd				
	3	表	G		0.55			MAX	
	8	表	G		nd-1750ng/L	1ng/L			
	8	表	G		140-180ng/L	-			
	8	表	G		nd-300ng/L				
Clofibric acid	8	表	G		nd-90ng/L				
	8	表	G		nd-875/L				
	8	表	G		66 (MID), 210 (90%) 550 (MAX) ng/L	10ng/L			
	8	表	G		19-222ng/L	-			
	8	表	Swe		nd-9ng/L	-			
	12	河	B		90ng/L	10ng/L			
	8	表	G		nd	20ng/L		MAX	
	3	表	G		nd				
	Cloxacillin <i>Cyclophosphamide</i> <i>(Cyclophosphane)</i>	8	表	G		nd	10ng/L		
		13	河	B		nd	0.02		12
13		河	B		0.23 (MID), 6.4 (90%), Ca 100 (MAX) μg/L	0.01		25	
Diatrizoate (Na) Diazepam	3	表	G		nd				
	8	表	G		nd	30ng/L			
Diclofenac	1	河	G	R.Rhine	<0.7	0.05		39	
	8	表	G		90ng/L	-			

8	表	G	nd-489ng/L	5ng/L
8	表	G	nd-960ng/L	1ng/L
8	表	G	150(MID),800 (90%),1200(MAX)ng/L	10ng/L
8	表	G	200(MID),500(MAX) ng/L	-
8	表	B	20(MID),450(MAX) ng/L	10ng/L
8	表	G	nd-370ng/L	1ng/L
12	河	B	nd-0.06	0.01
3	表	G	1.2	MAX
3	河/湖	Swe	1-12ng/L	
3	支流	Swe	11-310ng/L	
1	河	G	nd	
8	表	G	nd	20ng/L
3	表	G	0.34	
8	表	G	nd(MID),nd(90%),340 (MAX)ng/L	10ng/L
1	河	G	nd	
8	表	G	nd	50ng/L
1	河	G	up to 1.7	
1	河	G	Urselbach 97	1.7
1	河	G	Erlenbach 97	0.62
1	河	G	Nidda 97	0.97
1	河	G	Main 97	0.32
1	河	G	Fulda(Wah n.) 97	0.28
1	河	G	Rhine 97	0.08
8	表	G	150(MID),630 (90%),1700(MAX)ng/L	20ng/L
3	表	G	nd	
<b>17 <math>\alpha</math> -Oestradiol</b>				