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INTERLABORATORY ASSESSMENT OF THE BOVINE CORNEAL OPACITY AND PERMEABILITY (BCOP) ASSAY*

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This document contains the individual cornea data collected in laboratory
no. 09 (Janssen Pharmaceutica) => 52 compounds were tested.

Compounds tested

Table 1. Test chemicals and suppliers

Chemical			Supplier:
Code no.	Name	CAS no.*	catalogue no.
1	2-Ethoxyethanol	110-80-5	Aldrich: 25,637-4
2	Anthracene	120-12-7	Aldrich: 14,106-2
3	Allyl alcohol	107-18-6	Aldrich: 24,053-2
4	EDTA, di-potassium salt	25102-12-9	Aldrich: 22,600-9
5	Hexane	110-54-3	Aldrich: 13,936-6
6	2,4-Pentanedione	123-54-6	Aldrich: P 775-4
7	Phenylbutazone	50-33-9	Aldrich: 21,186-9
8	1-Nitropropane	108-03-2	Aldrich: N2,285-1
9	3-Glycidoxypropyltrimethoxysilane	2530-83-8	Aldrich: 23,578-4
10	Aluminium hydroxide	21645-51-2	Aldrich: 23,918-6
11	1,2,4-Trimethylbenzene	95-63-6	Aldrich: 24,027-3
12	2-Mercaptopyrimidine	1450-85-7	Aldrich: 12,962-3
13	Betaine monohydrate	590-47-6	Aldrich: 21,913-4
14	Sodium oxalate	62-76-0	Aldrich: 22,343-3
15	D,L-Glutamic acid	19285-83-7	Aldrich: G 279-6
16	Petroleum ether	8032-32-4	Aldrich: 26,173-4
17	Butyrolactone	96-48-0	Aldrich: B10 360-84
18	2,4-Dichloro-5-sulfamoylbenzoic acid	2736-23-4	Aldrich: 14,739-7
19	Furan	110-00-9	Aldrich: 18,592-2
20	Imidazole	288-32-4	Aldrich: I 20-2
21	1-phenyl-3-pyrazolidone	92-43-3	Aldrich: 12,791-4
22	2-Aminophenol	95-55-6	Aldrich: A7 130-1
23	Gluconolactone	90-80-2	Aldrich: G200-1
24	2-Methoxyethanol	109-86-4	Aldrich: 27,048-2
25	Dimethyl sulfoxide	67-68-5	Aldrich: 27,043-1
26	Magnesium carbonate	56378-72-4	Aldrich: 22,766-8
27	Propyl-4-Hydroxybenzoate	94-13-3	Aldrich: P5 335-7
28	Iminodibenzyl	494-19-9	Aldrich: I 130-8
29	Octanol	111-87-5	Aldrich: 29,324-5
30	Methylisobutyl ketone	108-10-1	Aldrich: 29,326-1
31	Dibenzoyl-L-tartaric acid	2743-38-6	Aldrich: 34,584-9
32	Ethanol	64-17-5	local vendor
33	Methanol	67-56-1	local vendor
34	Ethyl acetoacetate	141-97-9	Aldrich: 24,070-2
35	Promethazine hydrochloride	58-33-3	Aldrich: 28,411-4
36	Deoxycholic acid, sodium salt	302-95-4	Sigma: D-6750
37	MYRJ-45		ICI: A-8563
38	BRIJ-35	9002-92-0	Sigma: P-1254
39	Tetraaminopyrimidine sulfate	5392-28-9	Aldrich: T 380-7
40	N-Lauroylsarcosine, sodium salt	7631-98-3	Sigma: L-5125
41	Quinacrine	69-05-6	Sigma: Q-3251
42	Hexadecyltrimethylammonium bromide	57-09-0	Sigma: H-5882
43	Thiourea	62-56-6	Aldrich: 24,025-7
44	Dimethylbiguanide	657-24-9	Sigma: D-5035
45	Benzethonium chloride	121-54-0	Sigma: B-8879
46	Triton X-155	9010-44-0	Sigma: X-155
47	1,2,3-Trichloropropane	96-18-4	Aldrich: 11,012-4
48	Cyclohexanone	108-94-1	Aldrich: C10 218-0
49	Diacetone alcohol	123-42-2	Aldrich: H4 154-4
50	Laurylsulfobetaine	14933-08-5	Sigma: D-4516
51	Pyridine	110-86-1	Aldrich: 27,040-7
52	Triethanolamine	102-71-6	Aldrich: T5 830-0

*Chemical Abstracts Service registry no.

EEC VALIDATION STUDY ON THE BOVINE CORNEA OPACITY-PERMEABILITY ASSAY

BLIND CODE	CHEMICAL	L	OPACITY			PERMEABILITY		IN VITRO SCORE	EXP. Nr.	Re- marks	
			Su	10 min	120 min	240 min	O.D.				µg/ml
1	2-ethoxyethanol	L	62.3 ± 2.3	61.7 ± 1.9		1.515 ± 0.134	19.3	84.4 ± 1.2	5	I	
2	anthracene	So			1.4 ± 1.2	0.003 ± 0.007	0.0	1.4 ± 1.3	42	C	
3	allyl alcohol	L	97.6 ± 18.9	94.1 ± 18.9		1.948 ± 0.455	24.7	123.3 ± 14.4	5	I	
4	ethylenediaminetetraacetate DiK	So			0.8 ± 0.5	0.010 ± 0.014	0.1	0.9 ± 0.6	42	C	
5	hexane	L	1.3 ± 0.8	1.3 ± 1.8		0.002 ± 0.002	0	1.4 ± 1.8	6	I	
6	2,4-pentadione	L	54.6 ± 4.7	49.1 ± 3.4		0.084 ± 0.036	1.1	50.3 ± 3.4	6	I	
7	phenylbutazone	So			0.7 ± 0.4	-0.008 ± 0.008	0	0.5 ± 0.4	42	C	
8	1-nitropropane	L	1.5 ± 1.1	16.5 ± 1.7		0.008 ± 0.018	0.1	16.6 ± 1.9	7	I	
9	3-glycidioxypropyltrimethoxysilane	L	16.1 ± 5.2	16.6 ± 4.5		0.065 ± 0.082	0.8	17.6 ± 4.7	7	I	
10	aluminium hydroxide	So			9.7 ± 2.3	0.012 ± 0.007	0.1	9.9 ± 2.3	43	C	
11	1,2,4-trimethylbenzene	L	4.6 ± 0.9	12.5 ± 1.5		0.579 ± 0.369	7.3	21.2 ± 4.5	8	I	
12	2-mercaptopyrimidine	So			-0.2 ± 0.4	-0.004 ± 0.002	0	-0.2 ± 0.4	43	C	
13	betaine monohydrate	So			3.1 ± 2.3	0.029 ± 0.014	0.1	3.5 ± 2.2	43	C	
14	sodium oxalate	So			1.7 ± 0.9	0.103 ± 0.042	0.6	3.2 ± 1.3	22	C	
15	DL-glutamic acid	So			-0.2 ± 0.5	-0.005 ± 0.005	0	-0.2 ± 0.5	22	C	
16	petroleum ether	L	0.7 ± 1.1	1.4 ± 1.9		0.015 ± 0.011	0.2	2.1 ± 1.9	8	I	
17	butyrolactone	L	32.3 ± 3.9	34.2 ± 3.1		0.495 ± 0.199	6.3	41.6 ± 5.0	9	I	
18	2,4-dichloro-5-sulfamoyl-benzoic acid	So			19.3 ± 4.8	-0.010 ± 0.004	0	19.2 ± 4.7	25	C	
19	furan	L	15.2 ± 2.1	20.6 ± 2.5		1.970 ± 0.197	24.9	50.2 ± 4.0	9	I	
20	imidazole	So			40.3 ± 9.9	1.598 ± 0.271	9.2	64.3 ± 11.2	25	C	

EEC VALIDATION STUDY ON THE BOVINE CORNEA OPACITY-PERMEABILITY ASSAY

BLIND CODE	CHEMICAL	L	OPACITY			PERMEABILITY		IN VITRO SCORE	EXP. Nr.	Re- marks
			10 min	120 min	240 min	O.D.	µg/ml			
21	1-phenyl-3-pyrazolidone	So			11.1 ± 1.0	0.143 ± 0.052	0.8	13.2 ± 1.6	40	C
22	2-aminophenol	So			10.9 ± 1.4	0.144 ± 0.188	0.8	13.0 ± 2.5	40	C
23	gluconolactone	So			85.2 ± 5.6	0.154 ± 0.041	0.8	87.5 ± 5.3	26	C
24	2-methoxyethanol	L	46.6 ± 8.4	45.1 ± 7.1		0.800 ± 0.137	10.1	57.1 ± 8.9	10	I
25	DMSO	L	8.7 ± 2.6	6.3 ± 1.7		0.204 ± 0.056	2.6	9.4 ± 1.4	10	I
26	magnesium carbonate	So			0.5 ± 0.5	0.016 ± 0.004	0.1	0.7 ± 0.5	26	C
27	propyl-4-hydroxybenzoate	So			5.2 ± 1.7	0.066 ± 0.059	0.4	6.2 ± 1.5	27	C
28	iminodibenzyl	So			0.2 ± 0.4	-0.001 ± 0.003	0	0.2 ± 0.4	27	C
29	octanol	L	22.4 ± 2.2	27.7 ± 5.0		2.212 ± 0.377	28.0	60.9 ± 6.9	11	I
30	methyl isobutyl ketone	L	10.6 ± 1.0	11.2 ± 2.7		0.546 ± 0.244	6.8	19.4 ± 3.1	11	I
31	dibenzoyl-L-tartaric acid	So			75.2 ± 14.2	0.416 ± 0.116	2.4	81.5 ± 13.7	27	C
32	ethanol	L	23.9 ± 4.0	22.3 ± 4.1		1.560 ± 0.316	19.8	45.7 ± 6.6	12	I
33	methanol	L	81.7 ± 5.6	73.7 ± 6.0		1.698 ± 0.560	9.8	99.2 ± 12.8	13b	C
34	ethyl acetoacetate	L	30.7 ± 2.8	24.0 ± 2.9		0.117 ± 0.007	0.6	25.7 ± 3.8	14	C
35	promethazine HCl	So			134.9 ± 9.7	0.287 ± 0.216	1.6	139.2 ± 10.2	38	C
36	deoxycholic acid sodium salt	Su	10.8 ± 1.5	13.9 ± 2.6		5.718 ± 0.511	32.6	99.6 ± 8.0	17	C
37	MYRJ 45	Su	-0.3 ± 0.4	0.4 ± 1.4		0.005 ± 0.004	0	0.5 ± 1.4	17	C
38	polyoxyethylene 23 lauryl ether	Su	0.7 ± 0.0	1.1 ± 0.6		-0.002 ± 0.008	0	1.0 ± 0.7	18	C
39	tetraaminopyrimidine sulfafate	So			2.6 ± 1.4	-0.003 ± 0.006	0	2.5 ± 1.4	38	C
40	N-lauroylsarcosine sodium salt	Su	3.4 ± 1.2	7.8 ± 0.9		3.653 ± 0.496	21.0	62.6 ± 7.3	18	C

EEC VALIDATION STUDY ON THE BOVINE CORNEA OPACITY-PERMEABILITY ASSAY

BLIND CODE	CHEMICAL	L	OPACITY			PERMEABILITY		IN VITRO SCORE	EXP. Nr.	Re- marks	
			Su	So	120 min	240 min	O.D.				µg/ml
41	quinacrine	So			57.0 ± 5.4	0.063 ± 0.040	0.4	57.9 ± 5.8	38	C	
42	hexadecyltrimethylammonium bromide	Su	11.3 ± 1.8	18.3 ± 3.6		3.438 ± 0.562	19.8	69.9 ± 6.9	18	C	
43	thiourea	So			85.8 ± 9.2	4.373 ± 1.028	25.0	151.4 ± 20.7	39	C	
44	dimethyl biguanide	So			0.7 ± 1.8	0.097 ± 0.176	0.6	2.1 ± 2.6	39	C	
45	benzethonium chloride	Su	53.1 ± 3.8	84.6 ± 3.3		5.420 ± 0.949	30.9	165.9 ± 14.5	19	C	
46	Triton X-155	Su	1.4 ± 1.3	3.0 ± 1.6		0.008 ± 0.014	0	3.1 ± 1.7	19	C	
47	1,2,3-trichloropropane	L	4.1 ± 1.3	7.7 ± 1.9		5.561 ± 1.398	31.7	91.1 ± 20.0	14	C	
48	cyclohexanone	L	57.9 ± 3.4	76.6 ± 3.9		4.341 ± 0.551	24.9	141.7 ± 8.2	16	C	
49	diacetone alcohol	L	24.1 ± 3.6	31.1 ± 3.2		4.119 ± 1.341	23.6	92.2 ± 22.0	17	C	
50	laurylsulfobetaine	Su	11.8 ± 2.6	16.2 ± 4.3		5.742 ± 1.462	32.7	102.4 ± 24.8	41	C	
51	pyridine	L	39.3 ± 4.1	44.4 ± 3.3		4.015 ± 0.849	23.0	104.7 ± 15.7	16	C	
52	triethanolamine	L	0.8 ± 0.7	2.6 ± 0.9		0.025 ± 0.011	1.4	3.0 ± 1.0	16	C	

L = Liquid (100%)

Su = Surfactant (10%)

So = Solid (20%)

I = Incomplete medium (MEM with only 1% FBS) ----> Exp. Nr. 5 to 13a

C = Complete medium

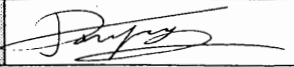
EEC VALIDATION OF THE BC0-P ASSAY

Data sheet

Lab. no. 09

Date: 09 Mar 92
Experiment no. 5
Compound of the same pair no. 3

Name: Ph. Vanparys

Signature: 

cor-nea	treatment	opacity at 10 min				opacity at 120 min				correc.	Permeability (OD)		In-vitro score
		C1	9	9	9.0	C1	13	13	13.0		0.003	correc.	
1	MEM	C1	9	9	9.0	C1	13	13	13.0		0.003		13.0
2		-9	C2	0	-4.5	-14	C2	0	-7.0		0.002		-7.0
3		-9	0	C3	-4.5	-14	0	C3	-7.0		0.004		-6.9
mean					0.0				-0.3		0.003		-0.3
± S.D.					7.8				11.5		0.001		11.5

4	compound no.	56	65	66	62.3	51	66	66	61.0	61.3	1.447	1.444	83.0
5	1	59	68	68	65.0	54	69	68	63.7	64.0	1.502	1.498	86.5
6	concentration	54	64	64	60.7	50	64	65	59.7	60.0	1.669	1.666	85.0
7		58	68	68	64.7	54	68	69	63.7	64.0	1.307	1.304	83.6
8		100%	56	65	65	62.0	51	66	66	61.0	61.3	1.537	1.534
9		53	62	62	59.0	50	64	64	59.3	59.7	1.649	1.646	84.3
mean					62.3				61.4	61.7	1.518	1.515	84.4
± S.D.					2.3				1.9	1.9	0.134	0.134	1.2

cor-nea	treatment
1	MEM
2	
3	
mean	
± S.D.	

4	compound no.
5	1
6	concentration
7	
8	
9	
mean	
± S.D.	

CALIBRATION		
Filter paper	Holder	Opacity
-	-	0
1	B	75
	A	71
2	B	152
	A	
3	B	223
	A	

EEC VALIDATION OF THE BC0-P ASSAY

Data sheet


Lab. no. 09

Date: 25 Jun 92

Name: Ph. Vanparys

Experiment no. 42

Compound of the same pair no. 4 + 7

Signature: 

cor-nea	treatment
1	MEM
2	
3	
mean	
± S.D.	

opacity at 240 min				correc.
C1	0	0	0.0	
-1	C2	0	-0.5	
-1	0	C3	-0.5	
			-0.3	
			0.3	

Permeability (OD)		in-vitro score
correc.		
0.016		0.2
0.023		-0.2
0.018		-0.2
0.019		-0.1
0.004		0.3

4	compound no.
5	2
6	concentration
7	
8	
9	
mean	
± S.D.	

2	3	3	2.7	3.0
0	0	0	0.0	0.3
1	1	2	1.3	1.7
0	0	0	0.0	0.3
2	2	3	2.3	2.7
0	0	0	0.0	0.3
			1.1	1.4
			1.2	1.2

0.020	0.001	3.0
0.010	-0.009	0.2
0.024	0.005	1.7
0.023	0.004	0.4
0.026	0.007	2.8
0.029	0.010	0.5
0.022	0.003	1.4
0.007	0.007	1.3

cor-nea	treatment
1	MEM
2	
3	
mean	
± S.D.	

CALIBRATION		
Filter paper	Holder	Opacity
-	-	0
1	B	75
	A	-75
2	B	158
	A	-170
3	B	248
	A	-259

4	compound no.
5	2
6	concentration
7	
8	
9	
mean	
± S.D.	

pH: 8.12

EEC VALIDATION OF THE BC0-P ASSAY

Data sheet

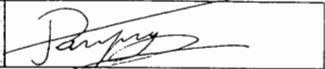
Lab. no. 09

Date: 09 Mar 92

Name: Ph. Vanparys

Experiment no. 5

Compound of the same pair no. 1

Signature: 

cor-nea	treatment	opacity at 10 min.				opacity at 120 min				Permeability (OD)		in-vitro score
		C1	C2	C3	mean	C1	C2	C3	mean	correc.	correc.	
1	MEM	C1	9	9	9.0	C1	13	13	13.0		0.003	13.0
2		-9	C2	0	-4.5	-14	C2	0	-7.0		0.002	-7.0
3		-9	0	C3	-4.5	-14	0	C3	-7.0		0.004	-6.9
mean					0.0				-0.3		0.003	-0.3
± S.D.					7.8				11.5		0.001	11.5

cor-nea	treatment	opacity at 10 min.				opacity at 120 min				Permeability (OD)		in-vitro score		
10	compound no.	115	123	123	120.3	106	122	121	116.3	116.7	1.555		1.552	139.9
11	3	109	118	119	115.3	102	117	117	112.0	112.3	1.957	1.953	141.6	
12	concentration	88	97	97	94.0	80	95	95	90.0	90.3	1.859	1.856	118.2	
13		96	105	105	102.0	88	102	102	97.3	97.7	1.581	1.578	121.3	
14		100%	77	86	86	83.0	69	85	85	79.7	80.0	1.948	1.945	109.2
15			65	74	74	71.0	57	72	72	67.0	67.3	2.807	2.804	109.4
mean						97.6				93.7	94.1	1.951	1.948	123.3
± S.D.					18.9				18.9	18.9	0.455	0.455	14.4	

cor-nea	treatment	opacity at 10 min.				opacity at 120 min				Permeability (OD)		in-vitro score
1	MEM	C1	9	9	9.0	C1	13	13	13.0		0.003	
2		-9	C2	0	-4.5	-14	C2	0	-7.0		0.002	-7.0
3		-9	0	C3	-4.5	-14	0	C3	-7.0		0.004	-6.9
mean					0.0				-0.3		0.003	-0.3
± S.D.					7.8				11.5		0.001	11.5

cor-nea	treatment	opacity at 10 min.				opacity at 120 min				Permeability (OD)		in-vitro score		
10	compound no.	115	123	123	120.3	106	122	121	116.3	116.7	1.555		1.552	139.9
11	3	109	118	119	115.3	102	117	117	112.0	112.3	1.957	1.953	141.6	
12	concentration	88	97	97	94.0	80	95	95	90.0	90.3	1.859	1.856	118.2	
13		96	105	105	102.0	88	102	102	97.3	97.7	1.581	1.578	121.3	
14		100%	77	86	86	83.0	69	85	85	79.7	80.0	1.948	1.945	109.2
15			65	74	74	71.0	57	72	72	67.0	67.3	2.807	2.804	109.4
mean						97.6				93.7	94.1	1.951	1.948	123.3
± S.D.					18.9				18.9	18.9	0.455	0.455	14.4	

CALIBRATION		
Filter paper	Holder	Opacity
-	-	0
1	B	75
	A	-7.1
2	B	152
	A	
3	B	223
	A	

EEC VALIDATION OF THE BC0-P ASSAY

Data sheet

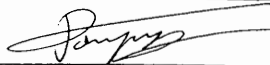
Lab. no. 09

Date: 25 Jun 92

Name: Ph. Vanparys

Experiment no. 42

Compound of the same pair no. 2 + 7

Signature: 

cor-nea	treatment
1	MEM
2	
3	
mean	
± S.D.	

opacity at 240 min				correc.
C1	0	0	0.0	
-1	C2	0	-0.5	
-1	0	C3	-0.5	
				-0.3
				0.3

Permeability (OD)	correc.	in-vitro score
0.016		0.2
0.023		-0.2
0.018		-0.2
0.019		-0.1
0.004		0.3

10	compound no.
11	4
12	
13	concentration
14	20%
15	
mean	
± S.D.	

0	0	0	0.0	0.3
0	1	1	0.7	1.0
0	0	0	0.0	0.3
0	0	0	0.0	0.3
0	1	1	0.7	1.0
1	1	2	1.3	1.7
				0.4
				0.8
				0.5
				0.5

0.043	0.024	0.7
0.039	0.020	1.3
0.014	-0.004	0.3
0.015	-0.004	0.3
0.043	0.024	1.4
0.019	0.000	1.7
0.029	0.010	0.9
0.014	0.014	0.6

cor-nea	treatment
1	MEM
2	
3	
mean	
± S.D.	

10	compound no.
11	4
12	
13	concentration
14	20%
15	
mean	
± S.D.	

pH: 5.2

CALIBRATION		
Filter paper	Holder	Opacity
-		0
1	B	75
	A	-75
2	B	158
	A	-170
3	B	248
	A	-259

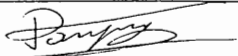
EEC VALIDATION OF THE BC0-P ASSAY

Data sheet

Lab. no. 09

Date: 19 Mar 92
Experiment no. 6
Compound of the same pair no. 6

Name: Ph. Vanparys

Signature: 

cor-nea	treatment	opacity at 10 min				opacity at 120 min					Permeability (OD)		in-vitro score
		C1	4	4	4.0	C1	4	4	4.0	correc.	correc.		
1	MEM	C1	4	4	4.0	C1	4	4	4.0		0.003		4.0
2		-2	C2	0	-1.0	-2	C2	0	-1.0		0.003		-1.0
3		-2	0	C3	-1.0	-2	0	C3	-1.0		0.001		-1.0
mean											0.002		0.7
± S.D.											0.001		2.9

4	compound no.	0	2	2	1.3	0	2	2	1.3	0.7	0.004	0.002	0.7
5	5	0	2	2	1.3	3	6	6	5.0	4.3	0.004	0.002	4.4
6	concentration	1	3	3	2.3	1	4	4	3.0	2.3	0.002	0.000	2.3
7		-1	1	1	0.3	-1	1	1	0.3	-0.3	0.009	0.007	-0.2
8		100%	-1	1	1	0.3	-1	1	1	0.3	-0.3	0.005	0.003
9		0	3	3	2.0	0	3	3	2.0	1.3	0.004	0.002	1.4
mean					1.3				2.0	1.3	0.005	0.002	1.4
± S.D.					0.8				1.8	1.8	0.002	0.002	1.8

cor-nea	treatment
1	MEM
2	
3	
mean	
± S.D.	

4	compound no.
5	5
6	concentration
7	
8	
9	
mean	
± S.D.	

CALIBRATION		
Filter paper	Holder	Opacity
-	-	0
1	B	75
	A	-68
2	B	158
	A	-152
3	B	254
	A	-235

EEC VALIDATION OF THE BC0-P ASSAY

Data sheet

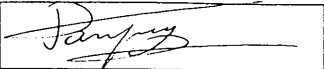
Lab. no. 09

Date: 19 Mar 92

Name: Ph. Vanparys

Experiment no. 6

Compound of the same pair no. 5

Signature: 

cor-nea	treatment	opacity at 10 min				opacity at 120 min				correc.	Permeability (OD)		in-vitro score
		C1	4	4	4.0	C1	4	4	4.0		correc.		
1	MEM	C1	4	4	4.0	C1	4	4	4.0		0.003		4.0
2		-2	C2	0	-1.0	-2	C2	0	-1.0		0.003		-1.0
3		-2	0	C3	-1.0	-2	0	C3	-1.0		0.001		-1.0
mean									0.7		0.002		0.7
± S.D.									2.9		0.001		2.9

10	compound no.	47	50	49	48.7	43	46	46	45.0	44.3	0.077	0.075	45.5
		11	6	51	54	54	53.0	46	49	49	48.0	47.3	0.048
12	concentration	52	55	55	54.0	50	52	52	51.3	50.7	0.135	0.133	52.7
13		50	53	53	52.0	47	50	50	49.0	48.3	0.125	0.123	50.2
14		100%	60	63	63	62.0	53	56	56	55.0	54.3	0.057	0.055
15		56	59	58	57.7	48	51	51	50.0	49.3	0.076	0.074	50.4
mean					54.6				49.7	49.1	0.086	0.084	50.3
± S.D.					4.7				3.4	3.4	0.036	0.036	3.4

cor-nea	treatment
1	MEM
2	
3	
mean	
± S.D.	

10	compound no.	
11	6	
12	concentration	
13		100%
14		
15		
mean		
± S.D.		

CALIBRATION		
Filter paper	Holder	Opacity
-	-	0
1	B	75
	A	68
2	B	158
	A	152
3	B	254
	A	235

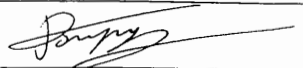
EEC VALIDATION OF THE BC0-P ASSAY

Data sheet

Lab. no. **09**

Date: 25 Jun 92
 Experiment no. 42
 Compound of the same pair no. 2 + 4

Name: Ph. Vanparys

Signature: 

cor-nea	treatment
1	MEM
2	
3	
mean	
± S.D.	

opacity at 240 min				correc.
C1	0	0	0.0	
-1	C2	0	-0.5	
-1	0	C3	-0.5	
				-0.3
				0.3

Permeability (OD)		in-vitro score
correc.		
0.016		0.2
0.023		-0.2
0.018		-0.2
0.019		-0.1
0.004		0.3

16	compound no.
17	7
18	
19	concentration
20	20%
21	
mean	
± S.D.	

0	0	0	0.0	0.3
0	0	0	0.0	0.3
0	0	0	0.0	0.3
0	1	1	0.7	1.0
0	0	1	0.3	0.7
1	1	1	1.0	1.3
				0.3
				0.7
				0.4
				0.4

0.014	-0.005	0.3
0.006	-0.012	0.1
0.003	-0.015	0.1
0.011	-0.007	0.9
0.024	0.005	0.7
0.006	-0.013	1.1
0.011	-0.008	0.5
0.008	0.008	0.4

cor-nea	treatment
1	MEM
2	
3	
mean	
± S.D.	

16	compound no.
17	7
18	
19	concentration
20	20%
21	
mean	
± S.D.	

pH: not enough compound for a determination.
 Compound no. 7 was washed away 4 times instead of 3 times.

CALIBRATION		
Filter paper	Holder	Opacity
-	-	0
1	B	75
	A	-75
2	B	158
	A	-170
3	B	248
	A	-259

EEC VALIDATION OF THE BC0-P ASSAY

Data sheet

Lab. no. 09

Date: 20 Mar 92

Name: Ph. Vanparys

Experiment no. 7

Compound of the same pair no. 9


Signature:

cor-nea	treatment	opacity at 10 min				opacity at 120 min				Permeability (OD) correc.	in-vitro score
		C1				C1					
1	MEM	C1	0	-4	-2.0	C1	-2	-4	-3.0	0.004	-2.9
2		0	C2	-4	-2.0	1	C2	-2	-0.5	0.002	-0.5
3		3	3	C3	3.0	3	1	C3	2.0	0.003	2.0
mean										0.003	-0.5
± S.D.										0.001	2.5

cor-nea	treatment	opacity at 10 min				opacity at 120 min				Permeability (OD) correc.		in-vitro score	
4	compound no.	3	4	0	2.3	20	18	16	18.0	18.5	0.001	-0.002	18.5
5	8	3	3	0	2.0	16	14	12	14.0	14.5	0.005	0.002	14.5
6	concentration	3	4	0	2.3	18	16	15	16.3	16.8	0.002	-0.001	16.8
7		0	1	-2	-0.3	20	18	16	18.0	18.5	0.048	0.045	19.2
8		100%	3	3	0	2.0	17	15	13	15.0	15.5	0.007	0.004
9		1	2	-1	0.7	17	14	13	14.7	15.2	0.003	0.000	15.2
mean					1.5				16.0	16.5	0.011	0.008	16.6
± S.D.					1.1				1.7	1.7	0.018	0.018	1.9

cor-nea	treatment	opacity at 10 min				opacity at 120 min				Permeability (OD) correc.		in-vitro score
1	MEM											
2												
3												
mean												
± S.D.												

→ 3 very small air-bubbles



cor-nea	treatment	opacity at 10 min				opacity at 120 min				Permeability (OD) correc.		in-vitro score
4	compound no.											
5	8											
6	concentration											
7												
8		100%										
9												
mean												
± S.D.												

CALIBRATION		
Filter paper	Holder	Opacity
-	-	0
1	B	75
	A	-75
2	B	158
	A	-152
3	B	254
	A	-235

EEC VALIDATION OF THE BC0-P ASSAY

Data sheet

Lab. no. 09

Date: 20 Mar 92

Name: Ph. Vanparys

Experiment no. 7

Compound of the same pair no. 8

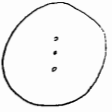
Signature:

cor-nea	treatment	opacity at 10 min				opacity at 120 min				Permeability (OD) correc.	In-vitro score
		C1				C1					
1	MEM	C1	0	-4	-2.0	C1	-2	-4	-3.0	0.004	-2.9
2		0	C2	-4	-2.0	• 1	C2	-2	-0.5	0.002	-0.5
3		3	3	C3	3.0	3	1	C3	2.0	0.003	2.0
mean					-0.3				-0.5	0.003	-0.5
± S.D.				2.9				2.5	0.001	2.5	

10	compound no.	21	21	18	20.0	21	19	17	19.0	19.5	0.216	0.213	22.7	
11	9	20	20	17	19.0	23	20	19	20.7	21.2	0.018	0.015	21.4	
12	concentration	21	22	18	20.3	22	20	18	20.0	20.5	0.008	0.005	20.6	
13		16	16	12	14.7	14	12	10	12.0	12.5	0.114	0.111	14.2	
14		100%	8	8	4	6.7	12	10	8	10.0	10.5	0.026	0.023	10.8
15		17	17	13	15.7	17	15	13	15.0	15.5	0.028	0.025	15.9	
mean				16.1				16.1	16.6	0.068	0.065	17.6		
± S.D.				5.2				4.5	4.5	0.082	0.082	4.7		


cor-nea	treatment
1	MEM
2	
3	
mean	
± S.D.	

→ 3 very small air-bubbles



10	compound no.
11	9
12	concentration
13	
14	
15	
mean	
± S.D.	

→ small area which is not opaque



CALIBRATION		
Filter paper	Holder	Opacity
-	-	0
1	B	75
	A	75
2	B	158
	A	152
3	B	254
	A	235

EEC VALIDATION OF THE BC0-P ASSAY

Data sheet

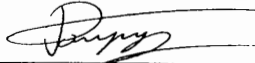
Lab. no. 09

Date: 26 Jun 92

Name: Ph. Vanparys

Experiment no. 43

Compound of the same pair no. 12 + 13

Signature: 

cor-nea	treatment
1	MEM
2	
3	
mean	
± S.D.	

opacity at 240 min				correc.
C1	0	0	0.0	
• 0	C2	0	0.0	
0	0	C3	0.0	
			0.0	
			0.0	

Permeability (OD)	correc.	in-vitro score
0.012		0.2
0.010		0.2
0.022		0.3
0.015		0.2
0.006		0.1

4	compound no.
5	10
6	
7	concentration
8	20%
9	
mean	
± S.D.	

9	9	8	8.7	8.7
10	10	9	9.7	9.7
10	10	10	10.0	10.0
13	13	13	13.0	13.0
6	6	6	6.0	6.0
11	11	11	11.0	11.0
			9.7	9.7
			2.3	2.3

0.027	0.012	8.9
0.019	0.004	9.7
0.030	0.015	10.2
0.026	0.011	13.2
0.037	0.022	6.3
0.020	0.006	11.1
0.026	0.012	9.9
0.007	0.007	2.3

cor-nea	treatment
1	MEM
2	
3	
mean	
± S.D.	

CALIBRATION		
Filter paper	Holder	Opacity
-	-	0
1	B	75
	A	-75
2	B	159
	A	-170
3	B	250
	A	-262

4	compound no.
5	10
6	
7	concentration
8	20%
9	
mean	
± S.D.	

pH: not enough compound for a pH determination.

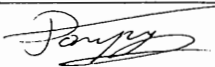
EEC VALIDATION OF THE BC0-P ASSAY

Data sheet

Lab. no. 09

Date: 23 Mar 92
Experiment no. 8
Compound of the same pair no. 16

Name: Ph. Vanparys

Signature: 

cor-nea	treatment	opacity at 10 min				opacity at 120 min				Permeability (OD)		in-vitro score
		C1				C1				correc.	correc.	
1	MEM	C1	-1	0	-0.5	C1	-3	-2	-2.5		-0.003	-2.5
2		0	C2	0	0.0	2	C2	0	1.0		-0.005	0.9
3		0	-1	C3	-0.5	1	-1	C3	0.0		-0.002	0.0
mean											-0.003	-0.6
± S.D.											0.002	1.8

cor-nea	treatment	opacity at 10 min				opacity at 120 min				Permeability (OD)		in-vitro score	
		C1				C1				correc.	correc.		
4	compound no.	6	6	6	6.0	14	10	11	11.7	12.2	0.337	0.340	17.3
5	11	5	4	5	4.7	15	12	13	13.3	13.8	0.529	0.532	21.8
6	concentration	4	3	4	3.7	14	11	11	12.0	12.5	0.380	0.383	18.3
7		5	4	5	4.7	14	11	12	12.3	12.8	0.783	0.786	24.6
8		100%	4	3	4	3.7	11	8	9	9.3	9.8	1.213	1.216
9		5	4	5	4.7	15	12	13	13.3	13.8	0.209	0.212	17.0
mean					4.6				12.0	12.5	0.575	0.579	21.2
± S.D.					0.9				1.5	1.5	0.369	0.369	4.5

cor-nea	treatment
1	MEM
2	
3	
mean	
± S.D.	

cor-nea	treatment	
4	compound no.	
5	11	
6	concentration	
7		100%
8		
9		
mean		
± S.D.		

rinsed 4 times instead off 3 times

CALIBRATION		
Filter paper	Holder	Opacity
-		0
1	B	75
	A	75
2	B	158
	A	168
3	B	253
	A	260

EEC VALIDATION OF THE BC0-P ASSAY

Data sheet

Lab. no. 09

Date: 26 Jun 92

Name: Ph. Vanparys

Experiment no. 43

Compound of the same pair no. 10 + 13

Signature: 

cor-nea	treatment
1	MEM
2	
3	
mean	
± S.D.	

opacity at 240 min					Permeability (OD)		in-vitro score
				correc.	correc.		
C1	0	0	0.0		0.012		0.2
• 0	C2	0	0.0		0.010		0.2
0	0	C3	0.0		0.022		0.3
			0.0		0.015		0.2
			0.0		0.007		0.1

10	compound no.	
11	12	
12	concentration	
13		
14		20%
15		
mean		
± S.D.		

0	0	0	0.0	0.0	0.010	-0.005	-0.1
0	0	0	0.0	0.0	0.011	-0.004	-0.1
0	0	0	0.0	0.0	0.008	-0.006	-0.1
0	0	0	0.0	0.0	0.016	0.001	0.0
0	0	0	0.0	0.0	0.010	-0.005	-0.1
-1	-1	-1	-1.0	-1.0	0.011	-0.004	-1.1
			-0.2	-0.2	0.011	-0.004	-0.2
			0.4	0.4	0.002	0.002	0.4

cor-nea	treatment
1	MEM
2	
3	
mean	
± S.D.	

CALIBRATION		
Filter paper	Holder	Opacity
-	-	0
1	B	75
	A	-75
2	B	159
	A	-170
3	B	250
	A	-262

10	compound no.	
11	12	
12	concentration	
13		
14		20%
15		
mean		
± S.D.		

pH: 6.84

Compound No.12 was washed away 4 times instead of 3 times.

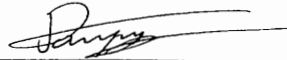
EEC VALIDATION OF THE BC0-P ASSAY

Data sheet

Lab. no. **09**

Date: 26 Jun 92
 Experiment no. 43
 Compound of the same pair no. 10 + 12

Name: Ph. Vanparys

Signature: 

cor-nea	treatment
1	MEM
2	
3	
mean	
± S.D.	

opacity at 240 min					correc.
C1	0	0	0.0		
0	C2	0	0.0		
0	0	C3	0.0		
			0.0		
			0.0		

Permeability (OD)		in-vitro score
correc.		
0.012		0.2
0.010		0.2
0.022		0.3
0.015		0.2
0.006		0.1

16	compound no.
17	13
18	
19	concentration
20	20%
21	
mean	
± S.D.	

7	7	6	6.7	6.7
1	1	1	1.0	1.0
1	1	1	1.0	1.0
5	5	5	5.0	5.0
2	2	1	1.7	1.7
3	3	3	3.0	3.0
			3.1	3.1
			2.3	2.3

0.030	0.015	6.9
0.041	0.026	1.4
0.041	0.027	1.4
0.034	0.020	5.3
0.070	0.055	2.5
0.043	0.029	3.4
0.043	0.029	3.5
0.014	0.014	2.2

cor-nea	treatment
1	MEM
2	
3	
mean	
± S.D.	

16	compound no.
17	13
18	
19	concentration
20	20%
21	
mean	
± S.D.	

pH: 8.24

CALIBRATION		
Filter paper	Holder	Opacity
-	-	0
1	B	75
	A	75
2	B	159
	A	170
3	B	250
	A	262

EEC VALIDATION OF THE BC0-P ASSAY

Data sheet


Lab. no. 09

Date: 27 Apr 92

Name: Ph. Vanparys

Experiment no. 22

Compound of the same pair no. 15

Signature: 

cor-nea	treatment
1	MEM
2	
3	
mean	
± S.D.	

opacity at 240 min					correc.
C1	0	2	1.0		
0	C2	1	0.5		
-3	-2	C3	-2.5		
			-0.3		
			1.9		

Permeability (OD)		In-vitro score
correc.		
0.016		1.2
0.014		0.7
0.015		-2.3
0.015		-0.1
0.001		1.9

4	compound no.
5	14
6	
7	concentration
8	20%
9	
mean	
± S.D.	

-1	0	1	0.0	0.3
0	0	2	0.7	1.0
1	1	4	2.0	2.3
0	1	3	1.3	1.7
1	1	3	1.7	2.0
1	2	4	2.3	2.7
			1.3	1.7
			0.9	0.9

0.106	0.092	1.7
0.042	0.028	1.4
0.122	0.108	3.9
0.143	0.128	3.6
0.164	0.150	4.2
0.129	0.115	4.4
0.118	0.103	3.2
0.042	0.042	1.3

cor-nea	treatment
1	MEM
2	
3	
mean	
± S.D.	

4	compound no.
5	14
6	
7	concentration
8	20%
9	
mean	
± S.D.	

Compound 14 was warmed up to 32°C and stirred on a magnetic stirrer.

CALIBRATION		
Filter paper	Holder	Opacity
-	-	0
1	B	75
	A	-75
2	B	158
	A	-168
3	B	248
	A	-257

EEC VALIDATION OF THE BC0-P ASSAY

Data sheet

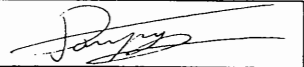
Lab. no. 09

Date: 27 Apr 92

Name: Ph. Vanparys

Experiment no. 22

Compound of the same pair no. 14

Signature: 

cor-nea	treatment
1	MEM
2	
3	
mean	
± S.D.	

opacity at 240 min				correc.
C1	0	2	1.0	
0	C2	1	0.5	
-3	-2	C3	-2.5	
				-0.3
				1.9

Permeability (OD)	correc.	In-vitro score
0.016		
0.014		
0.015		
0.015		
0.001		

10	compound no.
11	15
12	
13	concentration
14	20%
15	
mean	
± S.D.	

-1	0	1	0.0	0.3
-2	-1	0	-1.0	-0.7
-1	0	1	0.0	0.3
-2	-1	0	-1.0	-0.7
-1	0	1	0.0	0.3
-2	-1	0	-1.0	-0.7
				-0.5
				-0.2
				0.5

0.011	-0.004	0.3
0.018	0.003	-0.6
0.003	-0.012	0.2
0.010	-0.005	-0.7
0.008	-0.006	0.2
0.006	-0.008	-0.8
0.009	-0.005	-0.2
0.005	0.005	0.5

cor-nea	treatment
1	MEM
2	
3	
mean	
± S.D.	

10	compound no.
11	15
12	
13	concentration
14	20%
15	
mean	
± S.D.	

Compound 15 was warmed up to 32°C and stirred on a magnetic stirrer.

CALIBRATION		
Filter paper	Holder	Opacity
-	-	0
1	B	75
	A	-75
2	B	158
	A	-168
3	B	248
	A	-257

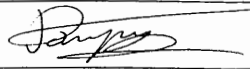
EEC VALIDATION OF THE BC0-P ASSAY

Data sheet

Lab. no. 09

Name: Ph. Vanparys

Date: 23 Mar 92
Experiment no. 8
Compound of the same pair no. 11

Signature: 

cor-nea	treatment	opacity at 10 min				opacity at 120 min				Permeability (OD) correc.	In-vitro score
		C1	-1	0	-0.5	C1	-3	-2	-2.5		
1	MEM	0	C2	0	0.0	2	C2	0	1.0	-0.003	-2.5
2		0	-1	C3	-0.5	1	-1	C3	0.0	-0.005	0.9
3		0	-1	C3	-0.5					-0.002	0.0
mean					-0.3				-0.5	-0.003	-0.6
± S.D.					0.3				1.8	0.002	1.8

10	compound no.	1	0	0	0.3	5	1	2	2.7	3.2	0.003	0.006	3.3
11	16	0	0	0	0.0	1	-1	0	0.0	0.5	0.017	0.020	0.8
12	concentration	3	2	3	2.7	5	2	3	3.3	3.8	0.032	0.035	4.4
13		0	0	0	0.0	4	0	1	1.7	2.2	0.005	0.008	2.3
14		100%	2	1	1	1.3	4	1	2	2.3	2.8	0.003	0.006
15		0	-1	0	-0.3	0	-3	-2	-1.7	-1.2	0.009	0.012	-1.0
mean					0.7				1.4	1.9	0.012	0.015	2.1
± S.D.					1.1				1.9	1.9	0.011	0.011	1.9

cor-nea	treatment
1	MEM
2	
3	
mean	
± S.D.	

10	compound no.	
11	16	
12	concentration	
13		
14		100%
15		
mean		
± S.D.		

CALIBRATION		
Filter paper	Holder	Opacity
-		0
1	B	75
	A	-75
2	B	158
	A	-168
3	B	253
	A	-260

EEC VALIDATION OF THE BC0-P ASSAY

Data sheet

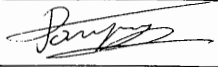
Lab. no. 09

Date: 26 Mar 92

Name: Ph. Vanparys

Experiment no. 9

Compound of the same pair no. 19

Signature: 

cor-nea	treatment	opacity at 10 min				opacity at 120 min				Permeability (OD)		in-vitro score
		C1				C1				correc.		
1	MEM	C1	0	0	0.0	C1	-1	0	-0.5		0.000	-0.5
2		0	C2	1	0.5	1	C2	2	1.5		0.005	1.6
3		0	-1	C3	-0.5	0	-2	C3	-1.0		0.038	-0.4
mean					0.0				0.0		0.014	0.2
± S.D.					0.5				1.3		0.021	1.2

4	compound no.	31	31	32	31.3	35	34	36	35.0	35.0	0.394	0.380	40.7
5	17	32	31	32	31.7	34	32	34	33.3	33.3	0.520	0.506	40.9
6	concentration	27	26	28	27.0	31	30	32	31.0	31.0	0.305	0.291	35.4
7		32	31	32	31.7	32	30	33	31.7	31.7	0.761	0.747	42.9
8		100%	39	38	40	39.0	40	38	41	39.7	39.7	0.735	0.721
9		33	32	34	33.0	35	33	36	34.7	34.7	0.340	0.326	39.6
mean					32.3				34.2	34.2	0.509	0.495	41.6
± S.D.					3.9				3.1	3.1	0.199	0.199	5.0

cor-nea	treatment
1	MEM
2	
3	
mean	
± S.D.	

4	compound no.
5	17
6	concentration
7	
8	
9	
mean	
± S.D.	

CALIBRATION		
Filter paper	Holder	Opacity
-	-	0
1	B	75
	A	-75
2	B	158
	A	-166
3	B	244
	A	-254

EEC VALIDATION OF THE BC0-P ASSAY

Data sheet

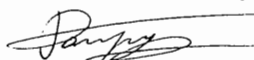
Lab. no. 09

Date: 07 May 92

Name: Ph. Vanparys

Experiment no. 25

Compound of the same pair no. 20 + 21

Signature: 

cor-nea	treatment
1	MEM
2	
3	
mean	
± S.D.	

opacity at 240 min				correc.
C1	0	0	0.0	
0	C2	0	0.0	
0	0	C3	0.0	
			0.0	
			0.0	

Permeability (OD)		in-vitro score
correc.		
0.021		0.3
0.012		0.2
0.010		0.1
0.014		0.2
0.006		0.1

4	compound no.
5	18
6	
7	concentration
8	20%
9	
mean	
± S.D.	

24	24	24	24.0	24.0
21	21	21	21.0	21.0
15	16	15	15.3	15.3
12	12	11	11.7	11.7
22	22	22	22.0	22.0
22	22	22	22.0	22.0
			19.3	19.3
			4.8	4.8

0.004	-0.011	23.8
0.000	-0.014	20.8
0.003	-0.011	15.2
0.011	-0.003	11.6
0.002	-0.012	21.8
0.006	-0.008	21.9
0.004	-0.010	19.2
0.004	0.004	4.7

cor-nea	treatment
1	MEM
2	
3	
mean	
± S.D.	

CALIBRATION		
Filter paper	Holder	Opacity
-	-	0
1	B	75
	A	75
2	B	159
	A	170
3	B	250
	A	260

4	compound no.
5	18
6	
7	concentration
8	20%
9	
mean	
± S.D.	

Compound 18 was warmed up to 32 °C and stirred on a magnetic stirrer.


EEC VALIDATION OF THE BC0-P ASSAY

Data sheet

Lab. no. 09

Date: 26 Mar 92
Experiment no. 9
Compound of the same pair no. 17

Name: Ph. Vanparys

Signature: 

cor-nea	treatment	opacity at 10 min				opacity at 120 min				Permeability (OD)		in-vitro score
		C1								correc.		
1	MEM	C1	0	0	0.0	C1	-1	0	-0.5		0.000	-0.5
2		0	C2	1	0.5	1	C2	2	1.5		0.005	1.6
3		0	-1	C3	-0.5	0	-2	C3	-1.0		0.038	-0.4
mean					0.0				0.0		0.014	0.2
± S.D.					0.5				1.3		0.021	1.2

	compound no.	18	17	19	18.0	24	23	25	24.0	24.0	1.900	1.886	52.3
10	19	17	16	18	17.0	23	21	24	22.7	22.7	2.288	2.274	56.8
11		15	14	15	14.7	20	18	21	19.7	19.7	1.829	1.815	46.9
12		13	13	14	13.3	20	18	20	19.3	19.3	1.785	1.771	45.9
13		16	15	16	15.7	21	20	22	21.0	21.0	1.944	1.930	49.9
14		13	12	13	12.7	17	16	18	17.0	17.0	2.157	2.143	49.1
15	concentration												
mean	100%				15.2				20.6	20.6	1.984	1.970	50.2
± S.D.					2.1				2.5	2.5	0.197	0.197	4.0

cor-nea	treatment
1	MEM
2	
3	
mean	
± S.D.	

	compound no.	
10	19	
11		
12		
13		concentration
14		100%
15		
mean		
± S.D.		

CALIBRATION		
Filter paper	Holder	Opacity
-	-	0
1	B	75
	A	-75
2	B	158
	A	-166
3	B	244
	A	-254

EEC VALIDATION OF THE BC0-P ASSAY

Data sheet

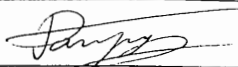
Lab. no. 09

Date: 07 May 92

Name: Ph. Vanparys

Experiment no. 25

Compound of the same pair no. 18 + 21

Signature: 

cor-nea	treatment
1	MEM
2	
3	
mean	
± S.D.	

opacity at 240 min				correc.
C1	0	0	0.0	
0	C2	0	0.0	
0	0	C3	0.0	
			0.0	
			0.0	

Permeability (OD)	correc.	In-vitro score
0.021		0.3
0.012		0.2
0.010		0.1
0.014		0.2
0.006		0.1

10	compound no.
11	20
12	
13	concentration
14	20%
15	
mean	
± S.D.	

43	41	41	41.7	41.7
33	33	32	32.7	32.7
28	28	27	27.7	27.7
52	53	51	52.0	52.0
37	37	36	36.7	36.7
51	52	51	51.3	51.3
			40.3	40.3
			9.9	9.9

2.110	2.096	73.1
1.430	1.416	53.9
1.427	1.412	48.9
1.400	1.386	72.8
1.694	1.680	61.9
1.612	1.597	75.3
1.612	1.598	64.3
0.271	0.271	11.2

cor-nea	treatment
1	MEM
2	
3	
mean	
± S.D.	

10	compound no.
11	20
12	
13	concentration
14	20%
15	
mean	
± S.D.	

Compound 20 was warmed up to 32 °C en stirred on a magnetic stirrer.

CALIBRATION		
Filter paper	Holder	Opacity
-	-	0
1	B	75
	A	-75
2	B	159
	A	-170
3	B	250
	A	-260

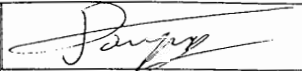
EEC VALIDATION OF THE BC0-P ASSAY

Data sheet

Lab. no. **09**

Date: 18 Jun 92
 Experiment no. 40
 Compound of the same pair no. 14 + 22

Name: Ph. Vanparys

Signature: 

cor-nea	treatment
1	MEM
2	
3	
mean	
± S.D.	

opacity at 240 min				correc.
C1	0	0	0.0	
-1	C2	0	-0.5	
0	0	C3	0.0	
				-0.2
				0.3

Permeability (OD)		in-vitro score
correc.		
0.025		0.4
0.019		-0.2
0.018		0.3
0.020		0.1
0.004		0.3

10	compound no.
11	21
12	
13	concentration
14	20%
15	
mean	
± S.D.	

10	12	12	11.3	11.5
10	12	12	11.3	11.5
9	10	10	9.7	9.8
10	12	11	11.0	11.2
9	10	10	9.7	9.8
12	13	12	12.3	12.5
			10.9	11.1
			1.0	1.0

0.176	0.156	13.8
0.113	0.093	12.9
0.131	0.110	11.5
0.134	0.114	12.9
0.165	0.145	12.0
0.258	0.237	16.1
0.163	0.143	13.2
0.052	0.052	1.6

cor-nea	treatment
1	MEM
2	
3	
mean	
± S.D.	

10	compound no.
11	21
12	
13	concentration
14	20%
15	
mean	
± S.D.	

pH: 7.41
 Compound No. 21 was washed away 4 times instead of 3 times.

CALIBRATION		
Filter paper	Holder	Opacity
-		0
1	B	75
	A	-75
2	B	158
	A	-170
3	B	249
	A	-260

EEC VALIDATION OF THE BC0-P ASSAY

Data sheet

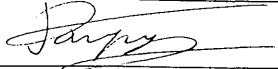
Lab. no. 09

Date: 18 Jun 92

Name: Ph. Vanparys

Experiment no. 40

Compound of the same pair no. 14 + 21

Signature: 

cor-nea	treatment
1	MEM
2	
3	
mean	
± S.D.	

opacity at 240 min				correc.
C1	0	0	0.0	
-1	C2	0	-0.5	
0	0	C3	0.0	
				-0.2
				0.3

Permeability (OD)		in-vitro score
correc.		
0.025		0.4
0.019		-0.2
0.018		0.3
0.020		0.1
0.004		0.3

16	compound no.
17	22
18	
19	concentration
20	20%
21	
mean	
± S.D.	

8	10	9	9.0	9.2
10	11	11	10.7	10.8
12	12	12	12.0	12.2
10	11	11	10.7	10.8
12	13	13	12.7	12.8
9	9	10	9.3	9.5
			10.7	10.9
			1.4	1.4

0.113	0.093	10.6
0.076	0.056	11.7
0.086	0.065	13.1
0.059	0.039	11.4
0.104	0.083	14.1
0.546	0.526	17.4
0.164	0.144	13.0
0.188	0.188	2.5

cor-nea	treatment
1	MEM
2	
3	
mean	
± S.D.	

CALIBRATION		
Filter paper	Holder	Opacity
-		0
1	B	75
	A	-75
2	B	158
	A	-170
3	B	249
	A	-260

16	compound no.
17	22
18	
19	concentration
20	20%
21	
mean	
± S.D.	

pH: 7.88


EEC VALIDATION OF THE BC0-P ASSAY

Data sheet

Lab. no. 09

Date: 08 May 92
Experiment no. 26
Compound of the same pair no. 22 + 26

Name: Ph. Vanparys

Signature: 

cor-nea	treatment
1	MEM
2	
3	
mean	
± S.D.	

opacity at 240 min					Permeability (OD)		in-vitro score
					correc.		
C1	0	0	0.0		0.017		0.3
0	C2	0	0.0		0.031		0.5
0	0	C3	0.0		0.012		0.2
				0.0	0.020		0.3
				0.0	0.010		0.1

10	compound no.
11	23
12	
13	concentration
14	20%
15	
mean	
± S.D.	

87	89	90	88.7	88.7	0.192	0.171	91.2
85	87	88	86.7	86.7	0.201	0.181	89.4
76	78	80	78.0	78.0	0.163	0.143	80.1
77	79	80	78.7	78.7	0.230	0.210	81.8
85	87	92	88.0	88.0	0.120	0.100	89.5
89	91	94	91.3	91.3	0.138	0.118	93.1
			85.2	85.2	0.174	0.154	87.5
			5.6	5.6	0.041	0.041	5.3

cor-nea	treatment	
1	MEM	Fluorescein leakage into the waterbath
2		
3		
mean		
± S.D.		

10	compound no.	
11	23	
12		
13	concentration	
14	20%	
15		
mean		
± S.D.		

O.D. versus C1
 measured 8 min. after
 first measurement.

106
101
92
91
107
104

Compound No. 23 was warmed up to 32°C
 and stirred on a magnetic stirrer.

CALIBRATION		
Filter paper	Holder	Opacity
-	-	0
1	B	75
	A	75
2	B	159
	A	171
3	B	251
	A	260

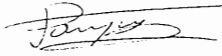
EEC VALIDATION OF THE BC0-P ASSAY

Data sheet

Lab. no. 09

Date: 27 Mar 92
Experiment no. 10
Compound of the same pair no. 25

Name: Ph. Vanparys

Signature: 

cor-nea	treatment	opacity at 10 min				opacity at 120 min				Permeability (OD)		in-vitro score
		C1	1	2	1.5	C1	1	1	1.0	correc.		
1	MEM	C1	1	2	1.5	C1	1	1	1.0	0.005		1.1
2		-1	C2	1	0.0	-2	C2	0	-1.0	0.001		-1.0
3		-2	0	C3	-1.0	-2	0	C3	-1.0	0.004		-0.9
mean					0.2				-0.3	0.003		-0.3
± S.D.					1.3				1.2	0.002		1.2

cor-nea	treatment	opacity at 10 min				opacity at 120 min				Permeability (OD)		in-vitro score	
		C1	1	2	1.5	C1	1	1	1.0	correc.			
4	compound no.	49	51	52	50.7	47	49	49	48.3	48.7	0.882	0.879	61.8
5	24	40	42	43	41.7	38	40	40	39.3	39.7	0.688	0.685	49.9
6	concentration	52	53	55	53.3	51	53	53	52.3	52.7	0.754	0.751	63.9
7		36	38	39	37.7	36	38	38	37.3	37.7	0.735	0.732	48.6
8		100%	56	58	59	57.7	51	53	53	52.3	52.7	1.047	1.044
9		37	39	40	38.7	37	40	39	38.7	39.0	0.716	0.713	49.7
mean					46.6				44.7	45.1	0.804	0.800	57.1
± S.D.					8.4				7.1	7.1	0.137	0.137	8.6

cor-nea	treatment
1	MEM
2	
3	
mean	
± S.D.	

cor-nea	treatment	
4	compound no.	
5	24	
6	concentration	
7		100%
8		
9		
mean		
± S.D.		

CALIBRATION		
Filter paper	Holder	Opacity
-	-	0
1	B	75
	A	-75
2	B	159
	A	-166
3	B	249
	A	-255


EEC VALIDATION OF THE BC0-P ASSAY

Data sheet

Lab. no. 09

Date: 27 Mar 92
Experiment no. 10
Compound of the same pair no. 24

Name: Ph. Vanparys

Signature: 

cor-nea	treatment	opacity at 10 min				opacity at 120 min				Permeability (OD)		in-vitro score
		C1	1	2	1.5	C1	1	1	1.0	correc.		
1	MEM	C1	1	2	1.5	C1	1	1	1.0	0.005		1.1
2		-1	C2	1	0.0	-2	C2	0	-1.0	0.001		-1.0
3		-2	0	C3	-1.0	-2	0	C3	-1.0	0.004		-0.9
mean					0.2				-0.3	0.003		-0.3
± S.D.					1.3				1.2	0.002		1.2

10	compound no.	opacity at 10 min				opacity at 120 min				Permeability (OD)		in-vitro score	
		10	11	12	11.0	5	7	7	6.3	6.7	0.221		0.218
11	25	5	7	7	6.3	4	6	5	5.0	5.3	0.162	0.159	7.7
12	concentration	10	12	12	11.3	7	9	9	8.3	8.7	0.199	0.196	11.6
13		4	5	6	5.0	2	5	4	3.7	4.0	0.294	0.291	8.4
14		100%	8	10	11	9.7	4	6	6	5.3	5.7	0.233	0.230
15		8	9	10	9.0	6	8	8	7.3	7.7	0.137	0.134	9.7
mean					8.7				6.0	6.3	0.208	0.204	9.4
± S.D.					2.6				1.7	1.7	0.056	0.056	1.4

cor-nea	treatment
1	MEM
2	
3	
mean	
± S.D.	

10	compound no.	
11	25	
12	concentration	
13		100%
14		
15		
mean		
± S.D.		

CALIBRATION		
Filter paper	Holder	Opacity
-		0
1	B	75
	A	75
2	B	159
	A	166
3	B	249
	A	255

EEC VALIDATION OF THE BC0-P ASSAY

Data sheet

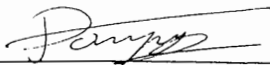
Lab. no. 09

Date: 08 May 92

Name: Ph. Vanparys

Experiment no. 26

Compound of the same pair no. 22 + 23

Signature: 

cor-nea	treatment
1	MEM
2	
3	
mean	
± S.D.	

opacity at 240 min				correc.
C1	0	0	0.0	
0	C2	0	0.0	
0	0	C3	0.0	
			0.0	
			0.0	

Permeability (OD)	correc.	In-vitro score
0.017		
0.031		
0.012		
0.020		
0.010		

16	compound no.
17	26
18	
19	concentration
20	20%
21	
mean	
± S.D.	

1	1	1	1.0	1.0
0	0	0	0.0	0.0
0	0	0	0.0	0.0
1	1	1	1.0	1.0
0	0	0	0.0	0.0
1	1	1	1.0	1.0
			0.5	0.5
			0.5	0.5

0.040	0.020	1.3
0.035	0.015	0.2
0.044	0.023	0.4
0.032	0.012	1.2
0.035	0.015	0.2
0.035	0.014	1.2
0.037	0.016	0.7
0.004	0.004	0.5

cor-nea	treatment
1	MEM
2	
3	
mean	
± S.D.	

Fluorescein leakage into the waterbath.

16	compound no.
17	26
18	
19	concentration
20	20%
21	
mean	
± S.D.	

Compound No. 26 was warmed up to 32°C and stirred on a magnetic stirrer.

Anterior chambers were opened for treatment and washing.

Glass of the anterior chamber No. 17 was found to be cracked at the end of the fluorescein incubation period.

CALIBRATION		
Filter paper	Holder	Opacity
-	-	0
1	B	75
	A	75
2	B	159
	A	171
3	B	251
	A	260

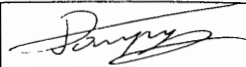
EEC VALIDATION OF THE BC0-P ASSAY

Data sheet

Lab. no. 09

Date: 11 May 92
Experiment no. 27
Compound of the same pair no. 28 + 31

Name: Ph. Vanparys

Signature: 

cor-nea	treatment
1	MEM
2	
3	
mean	
± S.D.	

opacity at 240 min				correc.
C1	0	0	0.0	
0	C2	0	0.0	
0	0	C3	0.0	
			0.0	
			0.0	

Permeability (OD)	correc.	in-vitro score
0.013		0.2
0.020		0.3
0.010		0.2
0.014		0.2
0.005		0.1

4	compound no.
5	27
6	concentration
7	
8	
9	20%
mean	
± S.D.	

8	8	8	8.0	8.0
4	4	4	4.0	4.0
6	6	7	6.3	6.3
4	4	4	4.0	4.0
4	5	5	4.7	4.7
4	4	4	4.0	4.0
			5.2	5.2
			1.7	1.7

0.023	0.008	8.1
0.183	0.169	6.5
0.077	0.063	7.3
0.028	0.014	4.2
0.103	0.089	6.0
0.067	0.053	4.8
0.080	0.066	6.2
0.059	0.059	1.5

cor-nea	treatment
1	MEM
2	
3	
mean	
± S.D.	

Glass of the anterior chamber No. 3 was found to be cracked at the end of the fluorescein incubation period.

4	compound no.
5	27
6	concentration
7	
8	
9	20%
mean	
± S.D.	

Fluorescein leakage from chamber No. 5.
 Compound No. 27 was warmed up to 32°C and stirred on a magnetic stirrer.

CALIBRATION		
Filter paper	Holder	Opacity
-	-	0
1	B	75
	A	-75
2	B	159
	A	-171
3	B	249
	A	-260

EEC VALIDATION OF THE BC0-P ASSAY

Data sheet

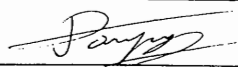
Lab. no. **09**

Date: 11 May 92

Name: Ph. Vanparys

Experiment no. 27

Compound of the same pair no. 27 + 31

Signature: 

cor-nea	treatment
1	MEM
2	
3	
mean	
± S.D.	

opacity at 240 min					correc.
C1	0	0	0.0		
0	C2	0	0.0		
0	0	C3	0.0		
				0.0	
				0.0	

Permeability (OD)		in-vitro score
correc.		
0.013		0.2
0.020		0.3
0.010		0.2
0.014		0.2
0.005		0.1

10	compound no.
11	28
12	
13	concentration
14	20%
15	
mean	
± S.D.	

0	0	0	0.0	0.0
0	0	0	0.0	0.0
0	0	0	0.0	0.0
0	0	0	0.0	0.0
1	1	1	1.0	1.0
0	0	0	0.0	0.0
				0.2
				0.2
				0.4
				0.4

0.016	0.002	0.0
0.017	0.002	0.0
0.012	-0.002	0.0
0.012	-0.003	0.0
0.015	0.001	1.0
0.010	-0.004	-0.1
0.014	-0.001	0.2
0.003	0.003	0.4

cor-nea	treatment
1	MEM
2	
3	
mean	
± S.D.	

Glass of the anterior chamber No. 3 was found to be cracked at the end of the fluorescein incubation period.

10	compound no.
11	28
12	
13	concentration
14	20%
15	
mean	
± S.D.	

Compound No. 28 was warmed up to 32°C and stirred on a magnetic stirrer

Fluorescein leakage from chamber No.13.

Compound No. 28 was washed away 6 times instead of 3 times

CALIBRATION		
Filter paper	Holder	Opacity
-	-	0
1	B	75
	A	-75
2	B	159
	A	-171
3	B	249
	A	-260

EEC VALIDATION OF THE BC0-P ASSAY

Data sheet

Lab. no. 09

Date: 30 Mar 92

Name: Ph. Vanparys

Experiment no. 11

Compound of the same pair no. 30

Signature: 

cor-nea	treatment	opacity at 10 min				opacity at 120 min				Permeability (OD)		in-vitro score
		C1	-2	-3	-2.5	C1	-2	-4	-3.0	correc.	correc.	
1	MEM	C1	-2	-3	-2.5	C1	-2	-4	-3.0		0.003	-3.0
2		C2	0		1.0	1	C2	-2	-0.5		0.002	-0.5
3		3	0	C3	1.5	3	1	C3	2.0		0.003	2.0
mean					0.0				-0.5		0.003	-0.5
±S.D.					2.2				2.5		0.001	2.5

4	compound no.	26	24	23	24.3	20	19	17	18.7	19.2	2.585	2.582	57.9
5	29	28	25	24	25.7	34	32	30	32.0	32.5	1.949	1.946	61.7
6	concentration	24	22	21	22.3	29	28	26	27.7	28.2	2.268	2.265	62.1
7		23	21	20	21.3	32	31	29	30.7	31.2	2.688	2.685	71.4
8		100%	22	20	19	20.3	32	30	28	30.0	30.5	2.094	2.091
9		22	20	19	20.3	26	24	23	24.3	24.8	1.703	1.700	50.3
mean					22.4				27.2	27.7	2.215	2.212	60.9
±S.D.					2.2				5.0	5.0	0.377	0.377	6.9

cor-nea	treatment
1	MEM
2	
3	
mean	
±S.D.	

4	compound no.	
5	29	
6	concentration	
7		
8		100%
9		
mean		
±S.D.		

the anterior compartment was rinsed 5-times instead of 3-times

CALIBRATION		
Filter paper	Holder	Opacity
-	-	0
1	B	75
	A	75
2	B	157
	A	166
3	B	247
	A	256

EEC VALIDATION OF THE BC0-P ASSAY

Data sheet


Lab. no. 09

Date: 30 Mar 92

Name: Ph. Vanparys

Experiment no. 11

Compound of the same pair no. 29

Signature: 

cor-nea	treatment	opacity at 10 min				opacity at 120 min				Permeability (OD) correc.	in-vitro score
		C1	-2	-3	-2.5	C1	-2	-4	-3.0		
1	MEM	C1	-2	-3	-2.5	C1	-2	-4	-3.0	0.003	-3.0
2		C2	0		1.0	1	C2	-2	-0.5	0.002	-0.5
3		0	C3	1.5		3	1	C3	2.0	0.003	2.0
mean					0.0				-0.5	0.003	-0.5
± S.D.				2.2				2.5	0.001	2.5	

	compound no.	13	11	10	11.3	13	11	9	11.0	11.5	0.507	0.504	19.1	
10	30	13	11	10	11.3	13	11	9	11.0	11.5	0.507	0.504	19.1	
11		13	11	10	11.3	16	14	12	14.0	14.5	0.398	0.395	20.4	
12	concentration	11	9	8	9.3	10	8	6	8.0	8.5	0.362	0.359	13.9	
13		11	9	8	9.3	9	7	5	7.0	7.5	0.943	0.940	21.6	
14		100%	13	10	10	11.0	15	13	11	13.0	13.5	0.338	0.335	18.5
15		13	10	10	11.0	13	11	9	11.0	11.5	0.743	0.740	22.6	
mean				10.6				10.7	11.2	0.549	0.546	19.4		
± S.D.				1.0				2.7	2.7	0.244	0.244	3.1		

cor-nea	treatment
1	MEM
2	
3	
mean	
± S.D.	

	compound no.	
10	30	
11		
12	concentration	
13		
14		100%
15		
mean		
± S.D.		

CALIBRATION		
Filter paper	Holder	Opacity
-	-	0
1	B	75
	A	75
2	B	157
	A	166
3	B	247
	A	256

EEC VALIDATION OF THE BC0-P ASSAY

Data sheet

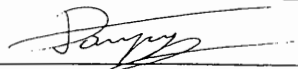
Lab. no. 09

Date: 11 May 92

Name: Ph. Vanparys

Experiment no. 27

Compound of the same pair no. 27 +28

Signature: 

cor-nea	treatment
1	MEM
2	
3	
mean	
± S.D.	

opacity at 240 min				correc.
C1	0	0	0.0	
0	C2	0	0.0	
0	0	C3	0.0	
			0.0	
			0.0	

Permeability (OD)		In-vitro score
correc.		
0.013		0.2
0.020		0.3
0.010		0.2
0.014		0.2
0.005		0.1

16	compound no.
17	31
18	
19	concentration
20	20%
21	
mean	
± S.D.	

93	90	87	90.0	90.0
84	81	78	81.0	81.0
57	53	51	53.7	53.7
67	63	61	63.7	63.7
87	88	88	87.7	87.7
78	75	73	75.3	75.3
			75.2	75.2
			14.2	14.2

0.538	0.523	97.9
0.439	0.425	87.4
0.467	0.453	60.5
0.499	0.485	70.9
0.209	0.194	90.6
0.430	0.416	81.6
0.430	0.416	81.5
0.116	0.116	13.7

cor-nea	treatment	
1	MEM	Glass of the anterior chamber No. 3 was found to be cracked at the end of the fluorescein incubation period.
2		
3		
mean		O.D. versus C1
± S.D.		measured 4 min. after first measurement.
16	compound no.	Compound No. 31 was warmed up to 32°C
17	31	and stirred on a magnetic stirrer.
18		
19	concentration	
20	20%	Compound No. 31 was washed away 6 times
21		instead of 3 times.
mean		
± S.D.		

CALIBRATION		
Filter paper	Holder	Opacity
-	-	0
1	B	75
	A	75
2	B	159
	A	171
3	B	249
	A	260

EEC VALIDATION OF THE BC0-P ASSAY

Data sheet


Lab. no. 09

Date: 02 Apr 92

Name: Ph. Vanparys

Experiment no. 12

Compound of the same pair no. -

Signature: 

cor-nea	treatment	opacity at 10 min				opacity at 120 min				Permeability (OD)		in-vitro score
		C1	-2	0	-1.0	C1	-2	0	-1.0	correc.		
1	MEM	C1	-2	0	-1.0	C1	-2	0	-1.0		0.001	-1.0
2		1	C2	2	1.5	1	C2	2	1.5		0.000	1.5
3		-1	-3	C3	-2.0	-2	-4	C3	-3.0		0.001	-3.0
mean											0.001	-0.8
± S.D.											0.001	2.2

	compound no.	32	30	33	31.7	29	27	31	29.0	29.8	1.628	1.627	54.2	
10	32	23	21	24	22.7	20	19	22	20.3	21.2	1.908	1.907	49.8	
11		23	22	24	23.0	21	19	22	20.7	21.5	1.687	1.686	46.8	
12		24	23	26	24.3	23	21	25	23.0	23.8	1.395	1.394	44.7	
13	concentration	21	20	22	21.0	19	17	20	18.7	19.5	1.012	1.011	34.7	
14		100%	21	19	22	20.7	17	16	19	17.3	18.2	1.731	1.730	44.1
15						23.9				21.5	22.3	1.560	1.560	45.7
mean					4.0				4.1	4.1	0.316	0.316	6.6	
± S.D.														

cor-nea	treatment
1	MEM
2	
3	
mean	
± S.D.	

	compound no.
10	32
11	
12	
13	concentration
14	100%
15	
mean	
± S.D.	

CALIBRATION		
Filter paper	Holder	Opacity
-		0
1	B	75
	A	-75
2	B	158
	A	-167
3	B	248
	A	-256


EEC VALIDATION OF THE BC0-P ASSAY

Data sheet

Lab. no. 09

Date: 03 Apr 92
Experiment no. 13 b
Compound of the same pair no. -

Name: Ph. Vanparys

Signature: 

cor-nea	treatment	opacity at 10 min				opacity at 120 min				Permeability (OD)		in-vitro score
		C1				C1				correc.		
1	MEM with	C1	-3	-2	-2.5	C1	-2	-2	-2.0		0.002	-2.0
2	I-Glutamine	2	C2	0	1.0	0	C2	0	0.0		0.003	0.0
3	Bicarbonate	1	-1	C3	0.0	1	0	C3	0.5		0.000	0.5
mean	pH 7.4				-0.5				-0.5		0.002	-0.5
± S.D.					1.8				1.3		0.002	1.3

10	compound no.	87	83	84	84.7	77	76	76	76.3	76.8	1.554	1.552	100.1
11	33 (2)	74	71	72	72.3	65	63	64	64.0	64.5	0.919	0.917	78.3
12		83	80	80	81.0	71	70	71	70.7	71.2	2.090	2.088	102.5
13	concentration	81	77	78	78.7	71	70	70	70.3	70.8	1.797	1.795	97.8
14	100%	87	84	85	85.3	79	77	77	77.7	78.2	1.335	1.333	98.2
15		90	87	87	88.0	81	80	80	80.3	80.8	2.502	2.500	118.3
mean					81.7				73.2	73.7	1.700	1.698	99.2
± S.D.					5.6				6.0	6.0	0.560	0.560	12.8

cor-nea	treatment
1	MEM with
2	I-Glutamine
3	Bicarbonate
mean	pH 7.4
± S.D.	

10	compound no.
11	33 (2)
12	
13	concentration
14	100%
15	
mean	
± S.D.	

CALIBRATION		
Filter paper	Holder	Opacity
1	B	
	A	
2	B	
	A	
3	B	
	A	

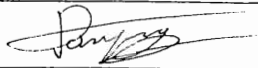
EEC VALIDATION OF THE BC0-P ASSAY

Data sheet

Lab. no. 09

Date: 06 Apr 92
Experiment no. 14
Compound of the same pair no. 47

Name: Ph. Vanparys

Signature: 

cor-nea	treatment	opacity at 10 min				opacity at 120 min				Permeability (OD)		in-vitro score
		C1	-1	-1	-1.0	C1	0	0	0.0	correc.		
1	MEM	C1	-1	-1	-1.0	C1	0	0	0.0	0.014		0.2
2		0	C2	0	0.0	0	C2	0	0.0	0.007		0.1
3		0	0	C3	0.0	0	0	C3	0.0	0.005		0.1
mean									0.0	0.009		0.1
± S.D.									0.0	0.005		0.1

cor-nea	treatment	opacity at 10 min				opacity at 120 min				Permeability (OD)		in-vitro score	
		C1	-1	-1	-1.0	C1	0	0	0.0	correc.			
4	compound no.	34	34	35	34.3	28	29	28	28.3	28.3	0.224	0.215	31.6
5	34	33	33	33	33.0	25	26	25	25.3	25.3	0.052	0.043	26.0
6	concentration	30	30	30	30.0	20	21	21	20.7	20.7	0.069	0.060	21.6
7		28	29	29	28.7	23	24	23	23.3	23.3	0.316	0.307	27.9
8		100%	31	32	31	31.3	25	26	25	25.3	25.3	0.032	0.023
9		26	27	27	26.7	21	21	21	21.0	21.0	0.058	0.049	21.7
mean					30.7				24.0	24.0	0.125	0.117	25.7
± S.D.					2.8				2.9	2.9	0.117	0.117	3.8

cor-nea	treatment
1	MEM
2	
3	
mean	
± S.D.	

cor-nea	treatment	
4	compound no.	
5	34	
6	concentration	
7		100%
8		
9		
mean		
± S.D.		

CALIBRATION		
Filter paper	Holder	Opacity
1	B	75
	A	75
2	B	158
	A	167
3	B	248
	A	255

EEC VALIDATION OF THE BC0-P ASSAY

Data sheet

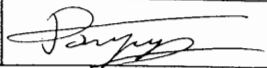
Lab. no. 09

Date: 12 Jun 92

Name: Ph. Vanparys

Experiment no. 38

Compound of the same pair no. 39 + 41

Signature: 

cor-nea	treatment
1	MEM
2	
3	
mean	
± S.D.	

opacity at 240 min				correc.
C1	0	0	0.0	
0	C2	0	0.0	
0	0	C3	0.0	
				0.0
				0.0

Permeability (OD)		in-vitro score
correc.		
0.009		0.1
0.019		0.3
0.005		0.1
0.011		0.2
0.007		0.1

4	compound no.
5	35
6	concentration
7	
8	
9	20%
mean	
± S.D.	

118	119	120	119.0	119.0
132	134	137	134.3	134.3
142	145	145	144.0	144.0
139	140	143	140.7	140.7
141	144	144	143.0	143.0
128	128	130	128.7	128.7
			134.9	134.9
			9.7	9.7

0.272	0.261	122.9
0.575	0.564	142.8
0.062	0.051	144.8
0.550	0.539	148.8
0.190	0.179	145.7
0.139	0.128	130.6
0.298	0.287	139.2
0.216	0.216	10.2

cor-nea	treatment
1	MEM
2	
3	
mean	
± S.D.	

4	compound no.
5	35
6	concentration
7	
8	
9	20%
mean	
± S.D.	

pH: 5.80

CALIBRATION		
Filter paper	Holder	Opacity
-	-	0
1	B	75
	A	-75
2	B	159
	A	-170
3	B	250
	A	-260

EEC VALIDATION OF THE BC0-P ASSAY

Data sheet

Lab. no. 09

Date: 16 Apr 92

Name: Ph. Vanparys

Experiment no. 17

Compound of the same pair no. 37 + 49

Signature: 

cor-nea	treatment	opacity at 10 min				opacity at 120 min				Permeability (OD)		in-vitro score
		C1	1	0	0.5	C1	2	1	1.5	correc.		
1	MEM	C1	1	0	0.5	C1	2	1	1.5			1.6
2		-2	C2	-1	-1.5	-3	C2	-2	-2.5			-2.4
3		0	0	C3	0.0	-2	1	C3	-0.5			-0.3
mean												
± S.D.												2.0

cor-nea	treatment	opacity at 10 min				opacity at 120 min				Permeability (OD)		in-vitro score		
		C1	1	0	0.5	C1	2	1	1.5	correc.				
4	compound no.	9	11	9	9.7	10	13	12	11.7	12.2			89.9	
5	36	10	12	11	11.0	13	16	14	14.3	14.8			97.2	
6	concentration	9	11	10	10.0	10	13	11	11.3	11.8			103.3	
7		12	14	13	13.0	15	18	16	16.3	16.8			94.9	
8		10%	11	13	12	12.0	14	18	16	16.0	16.5			113.2
9		8	10	9	9.0	9	12	10	10.3	10.8			99.3	
mean					10.8				13.3	13.8			99.6	
± S.D.					1.5				2.6	2.6			8.0	

cor-nea	treatment	opacity at 10 min				opacity at 120 min				Permeability (OD)		in-vitro score
		C1	1	0	0.5	C1	2	1	1.5	correc.		
1	MEM	C1	1	0	0.5	C1	2	1	1.5			1.6
2		-2	C2	-1	-1.5	-3	C2	-2	-2.5			-2.4
3		0	0	C3	0.0	-2	1	C3	-0.5			-0.3
mean												
± S.D.					1.0				2.0			2.0

cor-nea	treatment	opacity at 10 min				opacity at 120 min				Permeability (OD)		in-vitro score		
		C1	1	0	0.5	C1	2	1	1.5	correc.				
4	compound no.	9	11	9	9.7	10	13	12	11.7	12.2			89.9	
5	36	10	12	11	11.0	13	16	14	14.3	14.8			97.2	
6	concentration	9	11	10	10.0	10	13	11	11.3	11.8			103.3	
7		12	14	13	13.0	15	18	16	16.3	16.8			94.9	
8		10%	11	13	12	12.0	14	18	16	16.0	16.5			113.2
9		8	10	9	9.0	9	12	10	10.3	10.8			99.3	
mean					10.8				13.3	13.8			99.6	
± S.D.					1.5				2.6	2.6			8.0	

CALIBRATION		
Filter paper	Holder	Opacity
-	-	0
1	B	75
	A	-75
2	B	159
	A	-170
3	B	250
	A	-263

EEC VALIDATION OF THE BC0-P ASSAY

Data sheet

Lab. no. 09

Date: 16 Apr 92

Name: Ph. Vanparys

Experiment no. 17

Compound of the same pair no. 36 + 49

Signature: 

cor-nea	treatment	opacity at 10 min				opacity at 120 min				Permeability (OD) correc.	In-vitro score
		C1				C1			correc.		
1	MEM	C1	1	0	0.5	C1	2	1	1.5	0.006	1.6
2		-2	C2	-1	-1.5	-3	C2	-2	-2.5	0.010	-2.4
3		0	0	C3	0.0	-2	1	C3	-0.5	0.015	-0.3
mean										0.010	-0.3
± S.D.										0.005	2.0

cor-nea	treatment	opacity at 10 min				opacity at 120 min				Permeability (OD) correc.		In-vitro score	
		C1				C1			correc.				
10	compound no.	0	1	0	0.3	1	4	2	2.3	2.8	0.022	0.012	3.0
11	37	-2	0	-1	-1.0	-3	0	-2	-1.7	-1.2	0.012	0.001	-1.1
12	concentration	-1	0	0	-0.3	-2	1	0	-0.3	0.2	0.016	0.005	0.2
13		-1	0	0	-0.3	-2	0	-1	-1.0	-0.5	0.013	0.002	-0.5
14		10%	-1	0	0	-0.3	-1	1	0	0.0	0.5	0.011	0.001
15		-1	0	0	-0.3	-1	1	0	0.0	0.5	0.019	0.009	0.6
mean					-0.3				-0.1	0.4	0.015	0.005	0.5
± S.D.					0.4				1.4	1.4	0.004	0.004	1.4

cor-nea	treatment
1	MEM
2	
3	
mean	
± S.D.	

cor-nea	treatment	
10	compound no.	
11	37	
12	concentration	
13		
14		10%
15		
mean		
± S.D.		

CALIBRATION		
Filter paper	Holder	Opacity
-	-	0
1	B	75
	A	75
2	B	159
	A	170
3	B	250
	A	263

EEC VALIDATION OF THE BC0-P ASSAY

Data sheet

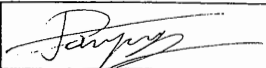
Lab. no. 09

Date: 17 Apr 92

Name: Ph. Vanparys

Experiment no. 18

Compound of the same pair no. 40 + 42

Signature: 

cor-nea	treatment	opacity at 10 min				opacity at 120 min				Permeability (OD) correc.	in-vitro score
		C1	C2	C3	mean	C1	C2	C3	mean		
1	MEM	C1	0	0	0.0	C1	0	0	0.0	0.013	0.2
2		0	C2	0	0.0	0	C2	0	0.0	0.011	0.2
3		1	1	C3	1.0	0	0	C3	0.0	0.008	0.1
mean		0.3				0.0				0.011	0.2
± S.D.		0.6				0.0				0.003	0.0

cor-nea	treatment	opacity at 10 min				opacity at 120 min				Permeability (OD) correc.		in-vitro score	
4	compound no.	1	1	0	0.7	2	2	1	1.7	1.7	0.022	0.012	1.8
5	38	1	1	0	0.7	1	1	0	0.7	0.7	0.012	0.001	0.7
6	concentration	1	1	0	0.7	1	1	0	0.7	0.7	0.011	0.000	0.7
7		1	1	0	0.7	2	2	2	2.0	2.0	0.005	-0.006	1.9
8		10%	1	1	0	0.7	1	1	0	0.7	0.7	0.003	-0.008
9		1	1	0	0.7	1	1	0	0.7	0.7	0.002	-0.009	0.5
mean		0.7				1.1				1.1	0.009	-0.002	1.0
± S.D.		0.0				0.6				0.6	0.008	0.008	0.7

cor-nea	treatment
1	MEM
2	
3	
mean	
± S.D.	

cor-nea	treatment	
4	compound no.	
5	38	
6	concentration	
7		10%
8		
9		
mean		
± S.D.		

Compound No. 38 was warmed up to 32°C and stirred on a magnetic stirrer

CALIBRATION		
Filter paper	Holder	Opacity
-	-	0
1	B	75
	A	75
2	B	158
	A	169
3	B	249
	A	258

EEC VALIDATION OF THE BC0-P ASSAY

Data sheet

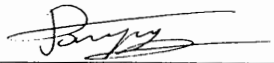
Lab. no. **09**

Date: 12 Jun 92

Name: Ph. Vanparys

Experiment no. 38

Compound of the same pair no. 35 + 41

Signature: 

cor-nea	treatment
1	MEM
2	
3	
mean	
± S.D.	

opacity at 240 min				correc.
C1	0	0	0.0	
•0	C2	0	0.0	
0	0	C3	0.0	
			0.0	
			0.0	

Permeability (OD)	correc.	In-vitro score
0.009		0.1
0.019		0.3
0.005		0.1
0.011		0.2
0.007		0.1

10	compound no.
11	39
12	
13	concentration
14	20%
15	
mean	
± S.D.	

3	3	2	2.7	2.7
3	3	3	3.0	3.0
3	3	3	3.0	3.0
1	1	1	1.0	1.0
1	1	1	1.0	1.0
5	5	4	4.7	4.7
			2.6	2.6
			1.4	1.4

0.002	-0.009	2.5
0.013	0.002	3.0
0.002	-0.009	2.9
0.018	0.007	1.1
0.004	-0.007	0.9
0.007	-0.004	4.6
0.008	-0.003	2.5
0.006	0.006	1.4

cor-nea	treatment
1	MEM
2	
3	
mean	
± S.D.	

10	compound no.
11	39
12	
13	concentration
14	20%
15	
mean	
± S.D.	

pH: 2.97
The anterior chamber was opened for washing.

CALIBRATION		
Filter paper	Holder	Opacity
-	-	0
1	B	75
	A	-75
2	B	159
	A	-170
3	B	250
	A	-260

EEC VALIDATION OF THE BC0-P ASSAY

Data sheet

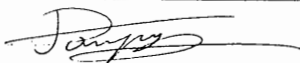
Lab. no. **09**

Date: 17 Apr 92

Name: Ph. Vanparys

Experiment no. 18

Compound of the same pair no. 38 + 42

Signature: 

cor-nea	treatment	opacity at 10 min				opacity at 120 min				Permeability (OD)		in-vitro score
		C1	0	0	0.0	C1	0	0	0.0	correc.		
1	MEM	C1	0	0	0.0	C1	0	0	0.0			0.2
2		0	C2	0	0.0	0	C2	0	0.0			0.2
3		1	1	C3	1.0	0	0	C3	0.0			0.1
mean												0.2
± S.D.												0.0

	compound no.	opacity at 10 min				opacity at 120 min				Permeability (OD)		in-vitro score		
		C1	0	0	0.0	C1	0	0	0.0	correc.				
10	40	3	4	3	3.3	9	9	8	8.7	8.7	3.128	3.117	55.4	
11		3	3	2	2.7	9	9	8	8.7	8.7	3.775	3.764	65.1	
12		5	5	4	4.7	8	9	8	8.3	8.3	3.992	3.981	68.1	
13		concentration	2	2	1	1.7	7	7	6	6.7	6.7	4.426	4.415	72.9
14			5	5	4	4.7	7	7	6	6.7	6.7	3.238	3.227	55.1
15			4	4	3	3.7	8	8	7	7.7	7.7	3.422	3.411	58.8
mean														62.6
± S.D.														7.3

cor-nea	treatment
1	MEM
2	
3	
mean	
± S.D.	

CALIBRATION		
Filter paper	Holder	Opacity
-	-	0
1	B	75
	A	-75
2	B	158
	A	-169
3	B	249
	A	-258

	compound no.	
10	40	
11		
12		
13		concentration
14		
15		
mean		
± S.D.		

Compound No. 40 was warmed up to 32°C and stirred on a magnetic stirrer.

Membranes released from the corneas:
very small air-bubbles behind the corneas.

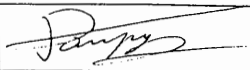
EEC VALIDATION OF THE BC0-P ASSAY

Data sheet

Lab. no. 09

Date: 12 Jun 92
Experiment no. 38
Compound of the same pair no. 35 + 39

Name: Ph. Vanparys

Signature: 

cor-nea	treatment
1	MEM
2	
3	
mean	
± S.D.	

opacity at 240 min				correc.
C1	0	0	0.0	
0	C2	0	0.0	
0	0	C3	0.0	
				0.0
				0.0

Permeability (OD)		in-vitro score
correc.		
0.009		0.1
0.019		0.3
0.005		0.1
0.011		0.2
0.007		0.1

16	compound no.
17	41
18	
19	concentration
20	20%
21	
mean	
± S.D.	

53	52	52	52.3	52.3
58	58	58	58.0	58.0
64	64	64	64.0	64.0
54	53	53	53.3	53.3
52	52	51	51.7	51.7
63	63	62	62.7	62.7
			57.0	57.0
			5.4	5.4

0.035	0.024	52.7
0.052	0.041	58.6
0.108	0.097	65.4
0.029	0.018	53.6
0.096	0.085	52.9
0.123	0.112	64.3
0.074	0.063	57.9
0.040	0.040	5.8

cor-nea	treatment
1	MEM
2	
3	
mean	
± S.D.	

16	compound no.
17	41
18	
19	concentration
20	20%
21	
mean	
± S.D.	

pH : 7.26
 Compound no. 41 was washed away 4 times.

CALIBRATION		
Filter paper	Holder	Opacity
-	-	0
1	B	75
	A	-75
2	B	159
	A	-170
3	B	250
	A	-260

EEC VALIDATION OF THE BC0-P ASSAY

Data sheet

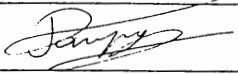
Lab. no. 09

Date: 17 Apr 92

Name: Ph. Vanparys

Experiment no. 18

Compound of the same pair no. 38 + 40

Signature: 

cor-nea	treatment	opacity at 10 min				opacity at 120 min				Permeability (OD) correc.	in-vitro score
		C1	0	0	0.0	C1	0	0	0.0		
1	MEM	C1	0	0	0.0	C1	0	0	0.0	0.013	0.2
2		0	C2	0	0.0	0	C2	0	0.0	0.011	0.2
3		1	1	C3	1.0	0	0	C3	0.0	0.008	0.1
mean					0.3				0.0	0.011	0.2
± S.D.					0.6				0.0	0.003	0.0

	compound no.	12	12	11	11.7	18	18	17	17.7	17.7	3.170	3.159	65.1
16	42	12	12	11	11.7	18	18	17	17.7	17.7	3.170	3.159	65.1
17		13	13	12	12.7	19	19	18	18.7	18.7	3.968	3.957	78.0
18		11	12	11	11.3	25	25	24	24.7	24.7	2.638	2.627	64.1
19	concentration	8	8	7	7.7	14	14	13	13.7	13.7	3.449	3.438	65.2
20	10%	12	12	12	12.0	19	19	18	18.7	18.7	3.282	3.271	67.7
21		12	13	12	12.3	17	17	16	16.7	16.7	4.187	4.176	79.3
mean					11.3				18.3	18.3	3.449	3.438	69.9
± S.D.					1.8				3.6	3.6	0.562	0.562	6.9

cor-nea	treatment
1	MEM
2	
3	
mean	
± S.D.	

	compound no.
16	42
17	
18	
19	concentration
20	10%
21	
mean	
± S.D.	

Compound No. 42 was warmed up to 32°C and stirred on a magnetic stirrer.

CALIBRATION		
Filter paper	Holder	Opacity
-	-	0
1	B	75
	A	75
2	B	158
	A	169
3	B	248
	A	258

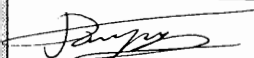
EEC VALIDATION OF THE BC0-P ASSAY

Data sheet

Lab. no. 09

Date: 15 Jun 92
Experiment no. 39
Compound of the same pair no. 44

Name: Ph. Vanparys

Signature: 

cor-nea	treatment
1	MEM
2	
3	
mean	
± S.D.	

opacity at 240 min				correc.
C1	0	0	0.0	
0	C2	0	0.0	
0	0	C3	0.0	
			0.0	
			0.0	

Permeability (OD)		in-vitro score
correc.		
0.036		0.5
0.022		0.3
0.028		0.4
0.029		0.4
0.007		0.1

4	compound no.
5	43
6	concentration
7	
8	
9	20%
mean	
± S.D.	

86	86	86	86.0	86.0
71	71	71	71.0	71.0
79	79	79	79.0	79.0
94	94	94	94.0	94.0
91	91	91	91.0	91.0
95	93	93	93.7	93.7
			85.8	85.8
			9.2	9.2

4.402	4.373	151.6
3.408	3.379	121.7
4.386	4.357	144.4
4.370	4.342	159.1
6.292	6.263	184.9
3.553	3.524	146.5
4.402	4.373	151.4
1.028	1.028	20.7

cor-nea	treatment
1	MEM
2	
3	
mean	
± S.D.	

4	compound no.
5	43
6	concentration
7	
8	
9	20%
mean	
± S.D.	

pH: 8.66

CALIBRATION		
Filter paper	Holder	Opacity
-	-	0
1	B	75
	A	75
2	B	159
	A	170
3	B	249
	A	260

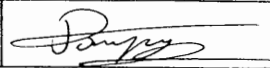
EEC VALIDATION OF THE BC0-P ASSAY

Data sheet

Lab. no. 09

Date: 15 Jun 92
Experiment no. 39
Compound of the same pair no. 43

Name: Ph. Vanparys

Signature: 

cor-nea	treatment
1	MEM
2	
3	
mean	
± S.D.	

opacity at 240 min					correc.
C1	0	0	0.0		
0	C2	0	0.0		
0	0	C3	0.0		
			0.0		
			0.0		

Permeability (OD)	correc.	in-vitro score
0.036		0.5
0.022		0.3
0.028		0.4
0.029		0.4
0.007		0.1

10	compound no.
11	44
12	concentration
13	
14	
15	
mean	
± S.D.	

0	0	0	0.0	0.0
2	2	2	2.0	2.0
1	1	1	1.0	1.0
-1	-2	-2	-1.7	-1.7
0	-1	-1	-0.7	-0.7
4	3	3	3.3	3.3
			0.7	0.7
			1.8	1.8

0.045	0.016	0.2
0.043	0.014	2.2
0.064	0.036	1.5
0.062	0.034	-1.2
0.485	0.457	6.2
0.055	0.026	3.7
0.126	0.097	2.1
0.176	0.176	2.6

cor-nea	treatment
1	MEM
2	
3	
mean	
± S.D.	

10	compound no.
11	44
12	concentration
13	
14	
15	
mean	
± S.D.	

pH: 8.50

CALIBRATION		
Filter paper	Holder	Opacity
-	-	0
1	B	75
	A	-75
2	B	159
	A	-170
3	B	249
	A	-260

EEC VALIDATION OF THE BC0-P ASSAY

Data sheet

Lab. no. 09

Date: 21 Apr 92

Name: Ph. Vanparys

Experiment no. 19

Compound of the same pair no. 46

Signature: 

cor-nea	treatment	opacity at 10 min				opacity at 120 min				Permeability (OD)		in-vitro score
		C1								correc.	correc.	
1	MEM	C1	0	0	0.0	C1	-1	0	-0.5		0.012	-0.3
2		0	C2	0	0.0	1	C2	1	1.0		0.009	1.1
3		0	0	C3	0.0	0	-1	C3	-0.5		0.015	-0.3
mean					0.0				0.0		0.012	0.2
± S.D.					0.0				0.9		0.003	0.8

4	compound no.	52	52	54	52.7	84	83	84	83.7	83.7	6.949	6.937	187.7
5	45	57	58	59	58.0	88	87	88	87.7	87.7	4.728	4.716	158.4
6	concentration	54	55	56	55.0	86	85	86	85.7	85.7	4.464	4.452	152.5
7		50	50	51	50.3	84	83	84	83.7	83.7	5.923	5.911	172.3
8		10%	47	47	48	47.3	79	78	80	79.0	79.0	4.781	4.769
9		54	55	56	55.0	89	87	88	88.0	88.0	5.748	5.736	174.0
mean					53.1				84.6	84.6	5.432	5.420	165.9
± S.D.					3.8				3.3	3.3	0.949	0.949	14.5

cor-nea	treatment
1	MEM
2	
3	
mean	
± S.D.	

4	compound no.	
5	45	
6	concentration	
7		
8		10%
9		
mean		
± S.D.		

CALIBRATION		
Filter paper	Holder	Opacity
-	-	0
1	B	75
	A	-75
2	B	158
	A	-171
3	B	252
	A	-263

EEC VALIDATION OF THE BC0-P ASSAY

Data sheet

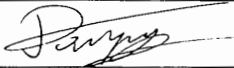
Lab. no. 09

Date: 21 Apr 92

Name: Ph. Vanparys

Experiment no. 19

Compound of the same pair no. 45

Signature: 

cor-nea	treatment	opacity at 10 min				opacity at 120 min				Permeability (OD) correc.	in-vitro score
		C1	0	0	0.0	C1	-1	0	-0.5		
1	MEM	C1	0	0	0.0	C1	-1	0	-0.5	0.012	-0.3
2		0	C2	0	0.0	1	C2	1	1.0	0.009	1.1
3		0	0	C3	0.0	0	-1	C3	-0.5	0.015	-0.3
mean					0.0				0.0	0.012	0.2
± S.D.					0.0				0.9	0.003	0.8

	compound no.	1	1	1	1.0	3	2	3	2.7	2.7	0.014	0.003	2.7
10	46	1	1	1	1.0	3	2	3	2.7	2.7	0.014	0.003	2.7
11		2	1	1	1.3	4	3	4	3.7	3.7	0.005	-0.006	3.6
12		3	3	3	3.0	5	4	5	4.7	4.7	0.011	0.000	4.7
13	concentration	0	0	0	0.0	1	0	1	0.7	0.7	0.016	0.004	0.7
14	10%	1	0	0	0.3	2	1	2	1.7	1.7	0.031	0.020	2.0
15		3	3	3	3.0	5	4	5	4.7	4.7	0.043	0.032	5.1
mean					1.4				3.0	3.0	0.020	0.008	3.1
± S.D.					1.3				1.6	1.6	0.014	0.014	1.7

cor-nea	treatment
1	MEM
2	
3	
mean	
± S.D.	

	compound no.
10	46
11	
12	
13	concentration
14	10%
15	
mean	
± S.D.	

CALIBRATION		
Filter paper	Holder	Opacity
-	-	0
1	B	75
	A	-75
2	B	158
	A	-171
3	B	252
	A	-263

EEC VALIDATION OF THE BC0-P ASSAY

Data sheet

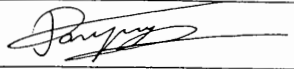
Lab. no. 09

Date: 06 Apr 92

Name: Ph. Vanparys

Experiment no. 14

Compound of the same pair no. 34

Signature: 

cor-nea	treatment	opacity at 10 min				opacity at 120 min				Permeability (OD) correc.	in-vitro score
		C1	-1	-1	-1.0	C1	0	0	0.0		
1	MEM	C1	-1	-1	-1.0	C1	0	0	0.0	0.014	0.2
2		0	C2	0	0.0	0	C2	0	0.0	0.007	0.1
3		0	0	C3	0.0	0	0	C3	0.0	0.005	0.1
mean										0.009	0.1
± S.D.										0.005	0.1

10	compound no.	4	4	4	4.0	6	6	6	6.0	6.0	6.160	6.151	98.3
11	47	5	6	6	5.7	11	12	11	11.3	11.3	4.200	4.191	74.2
12	concentration	3	4	3	3.3	6	7	6	6.3	6.3	4.500	4.491	73.7
13		4	5	5	4.7	7	7	7	7.0	7.0	7.760	7.751	123.3
14		100%	2	2	2	2.0	8	9	8	8.3	8.3	4.520	4.511
15		4	5	5	4.7	7	8	7	7.3	7.3	6.280	6.271	101.4
mean		4.1				7.7				7.7	5.570	5.561	91.1
± S.D.		1.3				1.9				1.9	1.398	1.398	20.0

cor-nea	treatment
1	MEM
2	
3	
mean	
± S.D.	

10	compound no.	
11	47	
12	concentration	
13		100%
14		
15		
mean		
± S.D.		

Na-fluorescein concentration in posterior compartment diluted with a factor 4. The OD values were multiplied with 4 to obtain the final OD value indicated in the table.

CALIBRATION		
Filter paper	Holder	Opacity
-		0
1	B	75
	A	75
2	B	158
	A	167
3	B	248
	A	255

EEC VALIDATION OF THE BC0-P ASSAY

Data sheet

Lab. no. 09

Date: 13 Apr 92
Experiment no. 16
Compound of the same pair no. 51 + 52

*REPEAT OF
 EXP. NR. 15*

Name: Ph. Vanparys

Signature: 

cor-nea	treatment	opacity at 10 min				opacity at 120 min				correc.	Permeability (OD)		in-vitro score
		C1	-1	0	-0.5	C1	-1	0	-0.5		correc.		
1	MEM	C1	-1	0	-0.5	C1	-1	0	-0.5		0.009		-0.4
2		0	C2	1	0.5	0	C2	1	0.5		0.009		0.6
3		0	-1	C3	-0.5	-1	-2	C3	-1.5		0.010		-1.4
mean											0.009		-0.4
± S.D.											0.001		1.0

16	compound no.	63	62	63	62.7	80	80	81	80.3	80.8	3.963	3.954	140.1
17	48 (2)	57	57	58	57.3	76	75	76	75.7	76.2	5.402	5.393	157.1
18	concentration	52	52	53	52.3	70	69	70	69.7	70.2	4.382	4.373	135.8
19		57	57	59	57.7	75	74	76	75.0	75.5	3.912	3.903	134.0
20		100%	59	59	60	59.3	80	79	81	80.0	80.5	4.090	4.081
21		58	57	59	58.0	76	75	77	76.0	76.5	4.350	4.341	141.6
mean		57.9				76.1				76.6	4.350	4.341	141.7
± S.D.		3.4				3.9				3.9	0.551	0.551	8.2

cor-nea	treatment
1	MEM
2	
3	
mean	
± S.D.	

16	compound no.	
17	48 (2)	
18	concentration	
19		100%
20		
21		
mean		
± S.D.		

CALIBRATION		
Filter paper	Holder	Opacity
-	-	0
1	B	75
	A	-75
2	B	158
	A	-168
3	B	249
	A	-259

EEC VALIDATION OF THE BC0-P ASSAY

Data sheet

Lab. no. **09**

Date: 16 Apr 92
 Experiment no. 17
 Compound of the same pair no. 36 + 37

Name: Ph. Vanparys

*REPEAT OF
 EXP. NR. 15*

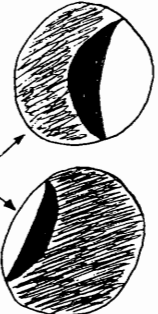
Signature: 

cor-nea	treatment	opacity at 10 min				opacity at 120 min				Permeability (OD)		in-vitro score
		C1				C1				correc.	correc.	
1	MEM	C1	1	0	0.5	C1	2	1	1.5		0.006	1.6
2		-2	C2	-1	-1.5	• -3	C2	-2	-2.5		0.010	-2.4
3		0	0	C3	0.0	-2	1	C3	-0.5		0.015	-0.3
mean											0.010	-0.3
± S.D.											0.005	2.0

	compound no.	21	24	23	22.7	30	34	32	32.0	32.5	4.517	4.507	100.1	
16	49 (2)	23	25	24	24.0	29	33	30	30.7	31.2	4.129	4.119	92.9	
17		29	31	30	30.0	33	36	34	34.3	34.8	6.519	6.509	132.5	
18		18	20	19	19.0	23	27	25	25.0	25.5	3.785	3.775	82.1	
19	concentration	24	27	26	25.7	31	35	31	32.3	32.8	3.074	3.064	78.8	
20		100%	22	24	23	23.0	28	31	29	29.3	29.8	2.750	2.740	70.9
21		mean				24.1				30.6	31.1	4.129	4.119	92.9
	± S.D.				3.6				3.2	3.2	1.341	1.341	22.0	

cor-nea	treatment
1	MEM
2	
3	
mean	
± S.D.	

	compound no.	
16	49 (2)	
17		
18		
19	concentration	
20		100%
21		
mean		
± S.D.		



Fine opaque membrane is released from the corneas

CALIBRATION		
Filter paper	Holder	Opacity
-	-	0
1	B	75
	A	-75
2	B	159
	A	-170
3	B	250
	A	-263

EEC VALIDATION OF THE BC0-P ASSAY

Data sheet

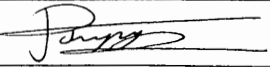
Lab. no. 09

Date: 22 Jun 92

Name: Ph. Vanparys

Experiment no. 41


Compound of the same pair no.

Signature: 

cor-nea	treatment	opacity at 10 min				opacity at 120 min				Permeability (OD)		in-vitro score
		C1	0	0	0.0	C1	0	0	0.0	correc.		
1	MEM	C1	0	0	0.0	C1	0	0	0.0	0.005		0.1
2		0	C2	0	0.0	0	C2	0	0.0	0.009		0.1
3		0	1	C3	0.5	0	0	C3	0.0	0.012		0.2
mean					0.2				0.0	0.009		0.1
± S.D.					0.3				0.0	0.004		0.1

4	compound no.	9	11	10	10.0	15	14	14	14.3	14.3	6.268	6.259	108.2
5	50	12	14	14	13.3	20	19	19	19.3	19.3	4.413	4.404	85.4
6	concentration	13	14	13	13.3	19	19	19	19.0	19.0	7.409	7.400	130.0
7		9	10	9	9.3	10	10	10	10.0	10.0	3.752	3.743	66.2
8		10%	9	10	9	9.3	14	13	13	13.3	13.3	5.552	5.543
9		15	16	16	15.7	22	21	21	21.3	21.3	7.111	7.102	127.9
mean					11.8				16.2	16.2	5.751	5.742	102.4
± S.D.					2.6				4.3	4.3	1.462	1.462	24.8

cor-nea	treatment
1	MEM
2	
3	
mean	
± S.D.	

4	compound no.	pH: 9.06	
5	50		
6	concentration		
7		10%	Cornea no. 7 with transparant area in the middle.
8			
9			
mean			
± S.D.			

CALIBRATION		
Filter paper	Holder	Opacity
1	B	
	A	
2	B	
	A	
3	B	
	A	

EEC VALIDATION OF THE BC0-P ASSAY

Data sheet

Lab. no. 09

Date: 13 Apr 92

Name: Ph. Vanparys

Experiment no. 16

Compound of the same pair no. 48 + 52

Signature: 

cor-nea	treatment	opacity at 10 min				opacity at 120 min				Permeability (OD)		in-vitro score
		C1	-1	0	-0.5	C1	-1	0	-0.5	correc.		
1	MEM	C1	-1	0	-0.5	C1	-1	0	-0.5			-0.4
2		0	C2	1	0.5	0	C2	1	0.5			0.6
3		0	-1	C3	-0.5	-1	-2	C3	-1.5			-1.4
mean												-0.4
± S.D.												1.0

cor-nea	treatment	opacity at 10 min				opacity at 120 min				Permeability (OD)		in-vitro score	
		C1	-1	0	-0.5	C1	-1	0	-0.5	correc.			
4	compound no.	41	41	42	41.3	47.	46	48	47.0	47.5	5.154	5.145	124.7
5	51	37	37	38	37.3	43	43	44	43.3	43.8	3.662	3.653	98.6
6	concentration	36	35	37	36.0	40	40	41	40.3	40.8	3.053	3.044	86.5
7		36	36	37	36.3	42	41	42	41.7	42.2	3.216	3.207	90.3
8		100%	38	38	39	38.3	42	42	43	42.3	42.8	4.318	4.309
9		47	46	47	46.7	49	48	50	49.0	49.5	4.742	4.733	120.5
mean					39.3				43.9	44.4	4.024	4.015	104.7
± S.D.					4.1				3.3	3.3	0.849	0.849	15.7

cor-nea	treatment
1	MEM
2	
3	
mean	
± S.D.	

cor-nea	treatment	
4	compound no.	
5	51	
6	concentration	
7		100%
8		
9		
mean		
± S.D.		

CALIBRATION		
Filter paper	Holder	Opacity
-	-	0
1	B	75
	A	-75
2	B	158
	A	-168
3	B	249
	A	-259

EEC VALIDATION OF THE BC0-P ASSAY

Data sheet

Lab. no. 09

Date: 13 Apr 92

Name: Ph. Vanparys

Experiment no. 16

Compound of the same pair no. 48 + 51

Signature: 

cor-nea	treatment	opacity at 10 min				opacity at 120 min				correc.	Permeability (OD)		in-vitro score
		C1	-1	0	-0.5	C1	-1	0	-0.5		correc.		
1	MEM	C1	-1	0	-0.5	C1	-1	0	-0.5		0.009		-0.4
2		0	C2	1	0.5	0	C2	1	0.5		0.009		0.6
3		0	-1	C3	-0.5	-1	-2	C3	-1.5		0.010		-1.4
mean					-0.2				-0.5		0.009		-0.4
± S.D.					0.6				1.0		0.001		1.0

	compound no.	1	0	2	1.0	3	2	3	2.7	3.2	0.038	0.029	3.6
10	52	1	0	2	1.0	3	2	3	2.7	3.2	0.038	0.029	3.6
11		2	1	3	2.0	3	2	3	2.7	3.2	0.039	0.030	3.6
12		0	0	1	0.3	1	1	2	1.3	1.8	0.025	0.016	2.1
13	concentration	1	0	1	0.7	3	2	4	3.0	3.5	0.052	0.043	4.1
14		1	0	1	0.7	2	2	3	2.3	2.8	0.027	0.018	3.1
15		0	0	0	0.0	1	0	1	0.7	1.2	0.025	0.016	1.4
mean					0.8				2.1	2.6	0.034	0.025	3.0
± S.D.					0.7				0.9	0.9	0.011	0.011	1.0

cor-nea	treatment
1	MEM
2	
3	
mean	
± S.D.	

	compound no.
10	52
11	
12	
13	concentration
14	100%
15	
mean	
± S.D.	

CALIBRATION		
Filter paper	Holder	Opacity
-	-	0
1	B	75
	A	-75
2	B	158
	A	-168
3	B	249
	A	-259