

Table 1. Gastrodin 在大鼠血清中定量分析之回收率 (Recovery) 試驗

Conc. (µg/mL)	Gastrodin Recovery (%)
1000.0	96.76
500.0	92.82
250.0	93.71
100.0	95.32
50.0	94.81
25.0	98.40
Mean	95.30
S.D.	1.81
C.V. (%)	1.89

Table 2. HBA 在大鼠血清中定量分析之回收率 (Recovery) 試驗

Conc. (µg/mL)	HBA Recovery (%)
1000.0	98.51
500.0	97.79
100.0	95.62
50.0	96.08
25.0	95.22
10.0	100.33
5.0	103.90
Mean	98.21
S.D.	0.38
C.V. (%)	0.39

Table 3. uracil 在大鼠血清中定量分析之回收率 (Recovery) 試驗

Conc. (µg/mL)	Uracil Recovery (%)
1000.0	87.13
100.0	97.48
50.0	96.67
10.0	100.92
5.0	100.79
1.0	99.13
0.1	108.80
Mean	98.70
S.D.	4.19
C.V. (%)	4.25

Table 4. Gastrodin 在大鼠血清中之同日內 (Intraday) 確效性試驗

Conc. (μ g/mL)	1	2	3	4	5	6	Mean	S.D.	CV. (%)
1000	1021.280	992.590	1020.742	1014.432	988.646	1018.594	1009.381	14.785	1.465
100	101.777	98.380	100.826	102.016	99.124	101.022	100.524	1.462	1.455
5	5.162	4.928	4.956	5.204	4.876	5.184	5.052	0.147	2.912

Table 5. Gastrodin 在大鼠血清中之異日間(interday)確效性試驗

Conc. (μ g/mL)	1	2	3	4	5	6	Mean	S.D.	CV. (%)
1000	1026.720	993.620	1021.698	1018.336	986.396	1016.398	1010.528	16.435	1.626
100	103.225	98.542	99.502	101.845	102.188	98.786	100.681	1.983	1.969
5	5.230	4.918	5.176	4.886	5.140	4.912	5.044	0.155	3.065

Table 6. HBA 在大鼠血清中之同日內(intraday)確效性試驗

Conc. (μ g/mL)	1	2	3	4	5	6	Mean	S.D.	CV. (%)
1000	1080.682	992.720	1018.542	1050.430	989.962	1022.706	1025.840	34.813	3.394
100	92.906	106.102	96.830	103.782	97.396	98.582	99.266	4.847	4.883
5	5.076	5.052	4.268	4.910	5.132	5.210	4.941	0.344	6.971

Table 7. HBA 在大鼠血清中之異日間(interday)確效性試驗

Conc. (μ g/mL)	1	2	3	4	5	6	Mean	S.D.	CV. (%)
1000	1100.206	1050.398	988.750	1029.784	992.700	1006.520	1028.060	42.348	4.119
100	96.526	103.182	98.760	94.186	105.332	100.282	99.711	4.136	4.148
5	4.798	5.089	4.917	5.230	4.910	5.180	5.021	0.171	3.409

Table 8. Uracil 在大鼠血清中之同日內(intraday)確效性試驗

Conc. (μ g/mL)	1	2	3	4	5	6	Mean	S.D.	CV. (%)
1000	516.826	498.770	512.620	509.703	486.882	500.912	504.286	10.961	2.174
100	50.384	48.662	51.336	52.978	49.382	50.764	50.584	1.517	2.999
5	5.202	4.960	4.986	5.107	4.839	4.670	4.961	0.190	3.820

Table 9. Uracil 在大鼠血清中之異日間(interday)確效性試驗

Conc. (μ g/mL)	1	2	3	4	5	6	Mean	S.D.	CV. (%)
1000	515.982	487.714	496.768	506.385	490.611	502.330	499.965	10.499	2.100
100	50.672	50.783	49.012	51.396	48.990	48.760	49.936	1.142	2.287
5	5.102	5.110	5.198	4.780	4.973	5.060	5.037	0.146	2.893

Table 10. Gastrodin 在大白鼠血清中於-20 之安定性試驗

Time	1000 μ g/mL	50 μ g/mL	25 μ g/mL
0-day	997.33	49.52	26.24
1-day	995.92	48.80	27.60
4-day	985.24	49.39	27.42
7-day	995.05	49.67	27.19
10-day	987.79	49.23	26.53
14-day	975.38	49.53	26.77
21-day	978.52	49.14	26.41

Table 11. Gastrodin 在大白鼠血清中於 37 之安定性試驗

Time	1000 μ g/mL	50 μ g/mL	25 μ g/mL
0-hr	1005.90	50.05	25.03
1-hr	996.83	48.62	24.03
3-hr	987.33	46.98	23.81
6-hr	978.80	45.61	23.76
12-hr	982.09	44.34	23.73
24-hr	974.10	43.42	23.02
36-hr	977.65	45.39	22.87
48-hr	968.62	42.04	22.15

Table 12. HBA 在大白鼠血清中於 -20 之安定性試驗

Time	1000 μ g/mL	50 μ g/mL	25 μ g/mL
0-day	1045.27	51.23	26.08
1-day	1051.62	51.90	26.45
4-day	1030.31	52.15	25.00
7-day	1046.55	52.80	24.37
10-day	1037.54	51.51	24.06
14-day	1043.92	53.45	24.60
21-day	1030.12	51.14	25.39

Table 13. HBA 在大白鼠血清中於 37 之安定性試驗

Time	1000 μ g/mL	50 μ g/mL	25 μ g/mL
0-hr	996.75	53.81	26.11
1-hr	988.34	53.72	25.25
3-hr	967.84	51.65	23.98
6-hr	942.59	48.78	24.64
12-hr	924.87	63.93	23.22
24-hr	912.28	45.27	22.55
36-hr	925.51	44.34	23.08
48-hr	912.33	45.67	22.13

Table 14. Uracil 在大白鼠血清中於 -20 之安定性試驗

Time	1000 μ g/mL	50 μ g/mL	25 μ g/mL
0-day	1050.37	51.82	26.55
1-day	1040.80	51.07	26.75
4-day	1049.15	51.13	27.41
7-day	1042.15	51.37	26.90
10-day	1052.97	53.09	27.38
14-day	1048.09	52.67	26.51
21-day	1050.28	52.54	27.06

Table 15. Uracil 在大白鼠血清中於 37 之安定性試驗

Time	1000 μ g/mL	50 μ g/mL	25 μ g/mL
0-hr	1012.92	50.66	26.08
1-hr	998.27	48.17	25.37
3-hr	989.51	50.24	24.68
6-hr	995.13	49.77	25.45
12-hr	986.36	48.22	24.62
24-hr	992.75	49.35	25.09
36-hr	997.54	48.93	24.83
48-hr	995.48	49.51	25.13

Table 16. 六隻大鼠靜脈注射 Gastrodin 標準品 (劑量：200 mg/kg) 後
之血清中濃度值 (μ g/mL)

Time	NO. 1	NO. 2	NO. 3	NO. 4	NO. 5	NO. 6	Mean	S.D.
2	461.01	590.63	744.52	459.49	658.26	486.33	566.71	118.07
5	400.12	416.08	431.12	398.22	416.30	392.84	409.11	14.48
10	243.60	144.12	269.04	195.69	250.70	200.52	217.28	46.02
30	89.30	76.60	97.89	64.27	78.13	66.54	78.79	12.98
45	56.44	65.13	49.90	32.94	40.18	34.41	46.50	12.87
60	30.93	24.95	31.46	23.67	27.16	25.23	27.23	3.27
75	15.28	12.57	15.65	12.16	14.03	14.82	14.08	1.44
90	8.48	7.53	8.53	7.83	8.16	7.84	8.06	0.40

Table 17. 六隻大鼠靜脈注射 HBA 標準品 (劑量 : 200 mg/kg) 後之血

清中濃度值 ($\mu\text{g/mL}$)

Time	NO. 1	NO. 2	NO. 3	NO. 4	NO. 5	NO. 6	Mean	S.D.
2	198.67	168.42	165.32	172.18	180.16	175.42	176.70	11.96
10	129.81	116.57	106.35	98.77	128.83	102.52	113.81	13.41
15	80.24	75.36	66.52	69.55	78.52	73.15	73.89	5.25
30	42.27	39.60	33.54	36.10	40.71	38.24	38.41	3.18
45	37.90	29.50	27.68	27.13	30.56	28.71	30.25	3.95
60	30.99	25.18	23.11	24.01	22.09	26.18	25.26	3.16
90	23.26	18.70	18.40	18.09	19.11	20.14	19.62	1.92
120	15.59	13.27	13.17	11.86	14.24	14.01	13.69	1.25

Table 18. 六隻大鼠靜脈注射 uracil 標準品 (劑量：200 mg/kg) 後之

血清中濃度值 (μ g/mL)

Time	NO. 1	NO. 2	NO. 3	NO. 4	NO. 5	NO. 6	Mean	S.D.
2	324.58	259.56	261.72	327.62	288.90	261.86	287.38	31.90
10	174.51	180.79	164.92	161.68	203.88	172.50	176.38	15.11
30	136.29	144.22	126.67	136.83	149.93	154.42	141.39	10.14
45	128.71	137.60	111.36	127.38	135.23	138.44	129.79	10.12
60	119.54	130.69	104.58	117.05	130.15	129.62	121.94	10.33
90	95.94	120.01	94.92	101.52	116.64	113.62	107.11	10.99
120	88.44	109.21	82.77	86.60	102.96	92.27	93.71	10.26
150	76.94	86.55	75.76	78.18	86.60	80.55	80.76	4.77

Table 19. 六隻大鼠靜脈注射 Gastrodin 標準品後之平均血清濃度值

(μ g/mL)

Time (min)	Mean \pm S.D
2	566.71 \pm 118.07
5	409.11 \pm 14.48
10	217.28 \pm 46.02
30	78.79 \pm 12.98
45	46.50 \pm 12.87
60	27.23 \pm 3.27
75	14.08 \pm 1.44
90	8.06 \pm 0.40

Table 20. 六隻大鼠靜脈注射 HBA 標準品後之平均血清濃度值 (μ g/mL)

Time (min)	Mean \pm S.D
2	176.70 \pm 11.96
10	113.81 \pm 13.41
15	73.89 \pm 5.25
30	38.41 \pm 3.18
45	30.25 \pm 3.95
60	25.26 \pm 3.16
90	19.62 \pm 1.92
120	13.69 \pm 1.25

Table 21. 六隻大鼠靜脈注射 uracil 標準品後之平均血清濃度值 (μ g/mL)

Time (min)	Mean \pm S.D
2	287.38 \pm 31.90
10	176.38 \pm 15.11
30	141.39 \pm 10.14
45	129.79 \pm 10.12
60	121.94 \pm 10.33
90	107.11 \pm 10.99
120	93.71 \pm 10.26
150	80.76 \pm 4.77

Table 22. 六隻大鼠口服 Gastrodin 標準品 (200 mg/kg) 後之血清中濃度值 ($\mu\text{g/mL}$)

Time(hr)	NO. 1	NO. 2	NO. 3	NO. 4	NO. 5	NO. 6	Mean	S.D.
0.17	46.28	48.51	47.19	46.56	50.26	49.11	47.98	1.57
0.25	52.74	77.92	65.93	60.96	65.27	63.22	64.34	8.19
0.5	69.47	98.54	96.35	89.22	79.88	92.75	87.70	11.08
1	41.92	49.15	59.64	46.81	44.68	50.10	48.72	6.12
1.5	21.11	23.26	28.13	26.51	22.20	24.11	24.22	2.65
2	9.68	13.06	14.57	12.72	10.28	12.10	12.07	1.82
2.5	6.88	8.74	10.05	7.54	7.52	8.62	8.23	1.14

Table 23. 六隻大鼠口服 Gastrodin 標準品 (400 mg/kg) 後之血清中濃度值 ($\mu\text{g/mL}$)

Time(hr)	NO. 1	NO. 2	NO. 3	NO. 4	NO. 5	NO. 6	Mean	S.D.
0.25	54.18	70.32	61.77	57.28	78.16	60.58	63.71	8.92
0.5	81.77	88.52	85.59	83.11	91.05	83.26	85.55	3.59
1	118.30	123.20	125.53	119.50	121.06	112.74	120.06	4.42
1.5	105.29	116.57	110.20	107.36	104.79	96.58	106.80	6.61
2	92.70	95.19	91.98	87.44	83.78	80.53	88.60	5.68
2.5	76.38	81.53	78.39	77.34	72.14	63.24	74.84	6.45
3	65.50	69.11	66.94	63.50	60.54	51.65	62.87	6.23
4	51.30	50.18	49.65	50.01	52.15	40.30	48.93	4.33
5	35.71	37.148	39.226	36.298	38.14	28.298	35.80	3.89

Table 24. 六隻大鼠口服 HBA 標準品(200 mg/kg)後之血清中濃度值
($\mu\text{g/mL}$)

Time (hr)	No. 1	No. 2	No. 3	No. 4	No. 5	No. 6	Mean	S.D.
0.25	13.21	10.76	14.18	16.26	25.10	18.19	16.28	5.02
0.50	26.51	21.44	23.37	23.55	29.20	25.41	24.91	2.74
1.00	41.09	39.31	40.18	41.13	42.31	39.98	40.66	1.06
1.50	29.74	27.54	28.51	29.39	30.20	30.06	29.24	1.03
2.00	20.53	18.28	21.39	20.71	21.29	20.79	20.50	1.14
2.50	14.40	13.06	14.17	14.02	13.98	14.53	14.03	0.52
3.00	10.70	10.21	10.32	10.19	10.52	10.58	10.42	0.21
4.00	6.81	6.55	7.02	6.38	6.79	6.91	6.74	0.24

Table 25. 六隻大鼠口服 HBA 標準品(400 mg/kg)後之血清中濃度值
($\mu\text{g/mL}$)

Time (hr)	No. 1	No. 2	No. 3	No. 4	No. 5	No. 6	Mean	S.D.
0.25	28.51	27.54	32.33	27.58	32.18	29.57	29.62	2.17
0.50	48.10	50.24	51.20	49.39	48.58	49.77	49.55	1.12
1.00	86.71	85.95	88.34	84.21	86.93	87.70	86.64	1.45
1.50	63.52	61.38	63.18	59.57	61.94	61.79	61.90	1.41
2.00	46.80	44.50	41.53	42.08	43.08	42.96	43.49	1.91
2.50	31.48	29.70	30.13	30.21	31.10	30.86	30.58	0.68
3.00	20.77	21.18	20.48	19.83	20.74	21.06	20.68	0.48
4.00	14.39	15.07	14.93	14.76	14.96	15.08	14.86	0.26

Table 26. 六隻大鼠口服 uracil 標準品 (100 mg/kg) 後之血清中濃度值 (μ g/mL)

Time(hr)	NO. 1	NO. 2	NO. 3	NO. 4	NO. 5	NO. 6	Mean	S.D.
0.25	22.19	29.31	41.95	23.11	32.11	28.70	29.56	7.17
0.5	44.63	34.24	45.08	48.57	45.75	41.79	43.34	4.96
1	62.20	59.60	66.21	64.72	66.51	61.28	63.42	2.82
1.5	58.70	53.15	62.00	60.28	59.40	56.22	58.29	3.16
2	48.41	47.74	54.51	50.38	47.15	46.87	49.18	2.90
2.5	38.91	40.26	46.12	42.22	37.91	40.87	41.05	2.90
3	33.41	35.79	40.18	37.94	32.94	34.54	35.80	2.80
4	26.11	25.00	32.71	30.10	25.32	23.26	27.08	3.57
5	20.006	19.646	23.544	21.226	19.92	16.972	20.22	2.15

Table 27. 六隻大鼠口服 uracil 標準品 (200 mg/kg) 後之血清中濃度值 (μ g/mL)

Time(hr)	NO. 1	NO. 2	NO. 3	NO. 4	NO. 5	NO. 6	Mean	S.D.
0.25	54.18	70.32	61.77	57.28	78.16	60.58	63.71	8.92
0.5	81.77	88.52	85.59	83.11	91.05	83.26	85.55	3.59
1	118.30	123.20	125.53	119.50	121.06	112.74	120.06	4.42
1.5	105.29	116.57	110.20	107.36	104.79	96.58	106.80	6.61
2	92.70	95.19	91.98	87.44	83.78	80.53	88.60	5.68
2.5	76.38	81.53	78.39	77.34	72.14	63.24	74.84	6.45
3	65.50	69.11	66.94	63.50	60.54	51.65	62.87	6.23
4	51.30	50.18	49.65	50.01	52.15	40.30	48.93	4.33
5	35.71	37.148	39.226	36.298	38.14	28.298	35.80	3.89

Table 28. 六隻大鼠口服 Gastrodin 標準品 (200 mg/kg) 後血清中之平均濃度值 (μ g/ml)

Time (hr)	Gastrodin
0.17	47.98 \pm 1.57
0.25	64.34 \pm 8.19
0.5	87.70 \pm 11.08
1	48.72 \pm 6.12
1.5	24.22 \pm 2.65
2	12.07 \pm 1.82
2.5	8.23 \pm 1.14

Table 29. 六隻大鼠口服 Gastrodin 標準品 (400 mg/kg) 後血清中之平均濃度值 (μ g/ml)

Time (hr)	Gastrodin
0.25	63.71 \pm 8.92
0.5	85.55 \pm 3.59
1	120.06 \pm 4.42
1.5	106.80 \pm 6.61
2	88.60 \pm 5.68
2.5	74.84 \pm 6.45
3	62.87 \pm 6.23
4	48.93 \pm 4.33
5	35.80 \pm 3.89

Table 30. 六隻大鼠口服 HBA 標準品 (200 mg/kg) 後血清中之平均濃度值 (μ g/ml)

Time (hr)	HBA
0.25	16.28 \pm 5.02
0.50	24.91 \pm 2.74
1.00	40.66 \pm 1.06
1.50	29.24 \pm 1.03
2.00	20.50 \pm 1.14
2.50	14.03 \pm 0.52
3.00	10.42 \pm 0.21
4.00	6.74 \pm 0.24

Table 31. 六隻大鼠口服 HBA 標準品 (400 mg/kg) 後血清中之平均濃度值 (μ g/ml)

Time (hr)	HBA
0.25	29.62 \pm 2.17
0.50	49.55 \pm 1.12
1.00	86.64 \pm 1.45
1.50	61.90 \pm 1.41
2.00	43.49 \pm 1.91
2.50	30.58 \pm 0.68
3.00	20.68 \pm 0.48
4.00	14.86 \pm 0.26

Table 32. 六隻大鼠口服 uracil 標準品 (100 mg/kg) 後血清中之平均濃度值 (μ g/ml)

Time (hr)	uracil
0.25	29.56 \pm 7.17
0.5	43.34 \pm 4.96
1	63.42 \pm 2.82
1.5	58.29 \pm 3.16
2	49.18 \pm 2.90
2.5	41.05 \pm 2.90
3	35.80 \pm 2.80
4	27.08 \pm 3.57
5	20.22 \pm 2.15

Table 33. 六隻大鼠口服 uracil 標準品 (200 mg/kg) 後血清中之平均濃度值 (μ g/ml)

Time (hr)	uracil
0.25	63.71 \pm 8.92
0.5	85.55 \pm 3.59
1	120.06 \pm 4.42
1.5	106.80 \pm 6.61
2	88.60 \pm 5.68
2.5	74.84 \pm 6.45
3	62.87 \pm 6.23
4	48.93 \pm 4.33
5	35.80 \pm 3.89

Table 34. 六隻大鼠靜脈注射 Gastrodin 標準品 (劑量 200 mg/kg) 後
之血清中濃度值經 WINNONLIN 處理之相關藥動學參數

Parameters	No. 1	No. 2	No. 3	No. 4	No. 5	No. 6	Mean	S.D.
A (µg/mL)	377.20	751.22	847.70	508.75	623.47	526.01	605.72	172.06
B (µg/mL)	178.16	104.18	394.80	73.31	320.57	93.87	194.15	133.61
(min ⁻¹)	0.11	0.20	0.40	0.11	0.27	0.13	0.20	0.11
(min ⁻¹)	0.03	0.02	0.05	0.02	0.05	0.02	0.03	0.01
AUC (µg min/mL)	9507.55	9099.62	10867.20	8028.08	9435.36	8207.35	9190.86	1029.3
K ₁₀ -HL (min)	11.87	7.37	6.06	9.56	6.93	9.18	8.49	2.13
-HL (min)	6.47	3.49	1.75	6.20	2.58	5.49	4.33	1.99
-HL (min)	23.30	35.35	15.32	32.86	15.38	29.81	25.34	8.72
K ₁₀ (min ⁻¹)	0.06	0.09	0.11	0.07	0.10	0.08	0.09	0.02
K ₁₂ (min ⁻¹)	0.02	0.08	0.17	0.03	0.09	0.04	0.07	0.06
K ₂₁ (min ⁻¹)	0.05	0.04	0.16	0.03	0.12	0.04	0.07	0.05
C _{max} (µg/mL)	555.36	855.40	1242.50	582.05	944.04	619.88	799.87	268.11
V ₁ (L)	0.36	0.23	0.16	0.34	0.21	0.32	0.27	0.08
CL (L/min)	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.00
MRT (min)	24.62	31.88	18.25	25.60	17.64	25.19	23.86	5.29
VD _{ss} (L)	0.52	0.70	0.34	0.64	0.37	0.61	0.53	0.15
V ₂ (L)	0.16	0.47	0.17	0.29	0.16	0.29	0.26	0.12

Table 35. 六隻大鼠靜脈注射 HBA 標準品 (劑量 200mg/kg) 後之血

清中濃度值經 WINNONLIN 處理之相關藥動學參數

Parameters	No. 1	No. 2	No. 3	No. 4	No. 5	No. 6	Mean	S.D.
A ($\mu\text{g/mL}$)	187.25	160.24	160.99	164.24	178.76	164.54	169.34	11.06
B ($\mu\text{g/mL}$)	45.25	33.34	32.35	38.40	28.73	41.09	36.53	6.15
(min^{-1})	0.09	0.07	0.09	0.10	0.07	0.10	0.09	0.01
(min^{-1})	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
AUC ($\mu\text{g min/mL}$)	7495.95	6407.60	6028.67	5794.80	6773.53	6188.13	6448.11	612.51
$K_{10}\text{-HL}$ (min)	22.35	22.94	21.61	19.82	22.63	20.86	21.70	1.19
-HL (min)	7.77	9.29	8.02	7.06	9.84	7.18	8.19	1.13
-HL (min)	82.66	88.55	89.27	74.39	102.21	75.63	85.45	10.31
K_{10} (min^{-1})	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.00
K_{12} (min^{-1})	0.04	0.03	0.04	0.05	0.03	0.05	0.04	0.01
K_{21} (min^{-1})	0.02	0.02	0.02	0.03	0.02	0.03	0.02	0.00
C_{max} ($\mu\text{g/mL}$)	232.50	193.59	193.33	202.65	207.49	205.63	205.86	14.36
V1 (L)	0.86	1.03	1.03	0.99	0.96	0.97	0.98	0.06
CL (L/min)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.00
MRT (min)	88.99	89.42	92.57	79.27	97.54	81.92	88.29	6.75
VD_{ss} (L)	2.37	2.79	3.07	2.74	2.88	2.65	2.75	0.23
V2 (L)	1.51	1.76	2.04	1.75	1.92	1.67	1.77	0.18

Table 36. 六隻大鼠靜脈注射 uracil 標準品 (劑量 200mg/kg) 後之血

清中濃度值經 WINNONLIN 處理之相關藥動學參數

Parameters	No. 1	No. 2	No. 3	No. 4	No. 5	No. 6	Mean	S.D.
A ($\mu\text{g/mL}$)	273.72	138.02	174.70	330.27	160.20	176.96	208.98	75.52
B ($\mu\text{g/mL}$)	156.16	167.55	136.59	155.42	166.78	175.80	159.72	13.68
(min^{-1})	0.24	0.19	0.16	0.32	0.13	0.35	0.23	0.09
(min^{-1})	0.005	0.004	0.004	0.005	0.004	0.005	0.0045	0.0005
AUC ($\mu\text{g min/mL}$)	34271.61	40851.22	34666.95	34839.36	40481.69	35610.12	36786.82	3038.71
$K_{10}\text{-HL}$ (min)	55.26	92.67	77.19	49.72	85.82	69.97	71.77	16.88
-HL (min)	2.92	3.56	4.26	2.16	5.35	1.98	3.37	1.29
-HL (min)	147.01	166.07	170.48	150.79	163.11	138.41	155.98	12.48
K_{10} (min^{-1})	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
K_{12} (min^{-1})	0.14	0.08	0.08	0.21	0.06	0.17	0.12	0.06
K_{21} (min^{-1})	0.09	0.11	0.07	0.11	0.07	0.18	0.10	0.04
C_{max} ($\mu\text{g/mL}$)	0.47	0.65	0.64	0.41	0.61	0.57	0.56	0.10
V (L)	429.88	305.57	311.29	485.69	326.98	352.76	368.70	73.08
CL (L/min)	0.01	0.00	0.01	0.01	0.00	0.01	0.01	0.00
MRT (min)	205.10	235.52	238.53	211.23	228.37	196.90	219.27	17.23
VD_{ss} (L)	1.20	1.15	1.38	1.21	1.13	1.11	1.20	0.10

Table 37. 六隻大鼠口服 Gastrodin 標準品 (200 mg/kg) 後之血清中濃

度值經 WINNONLIN 處理之相關藥動學參數

Parameters	No. 1	No. 2	No. 3	No. 4	No. 5	No. 6	Mean	S.D.
V/F (L)	1.46	1.25	1.13	1.33	1.45	1.18	1.30	0.14
K ₀₁ (min ⁻¹)	0.05	0.10	0.06	0.07	0.08	0.06	0.07	0.02
K ₁₀ (min ⁻¹)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.00
AUC (µg min/mL)	4877.82	6077.78	6570.88	5768.87	5373.69	5862.09	5755.19	582.47
K ₀₁ -HL (min ⁻¹)	13.11	7.06	11.28	9.65	9.18	10.87	10.19	2.06
K ₁₀ -HL (min ⁻¹)	24.67	26.42	25.68	26.63	26.96	23.94	25.72	1.19
Tmax (min)	27.11	24.71	28.91	27.16	25.31	27.42	26.77	1.53
Cmax (µg/mL)	66.92	98.53	93.10	84.33	79.23	88.03	85.02	11.12

Table 38. 六隻大鼠口服 Gastrodin 標準品 (400 mg/kg) 後之血清中濃

度值經 WINNONLIN 處理之相關藥動學參數

Parameters	No. 1	No. 2	No. 3	No. 4	No. 5	No. 6	Mean	S.D.
V/F (L)	1.71	1.90	1.77	1.54	1.53	1.63	1.68	0.14
K ₀₁ (min ⁻¹)	0.08	0.09	0.07	0.09	0.07	0.08	0.08	0.01
K ₁₀ (min ⁻¹)	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.00
AUC (µg min/mL)	9767.07	10547.97	10318.42	12117.41	10684.68	10549.50	10664.17	782.73
K ₀₁ -HL (min ⁻¹)	9.08	7.56	9.56	7.90	9.84	9.00	8.83	0.91
K ₁₀ -HL (min ⁻¹)	28.87	34.67	31.65	32.42	28.27	29.80	30.95	2.42
Tmax (min)	27.98	27.15	29.29	28.02	27.72	27.92	28.01	0.70
Cmax (µg/mL)	137.94	137.92	134.59	164.36	149.10	146.15	145.01	10.96

Table 39. 六隻大鼠口服 HBA 標準品 (200 mg/kg) 後之血清中濃度值

經 WINNONLIN 處理之相關藥動學參數

Parameters	No. 1	No. 2	No. 3	No. 4	No. 5	No. 6	Mean	S.D.
Volume/F	3.69	4.09	3.72	3.50	3.39	3.63	3.67	0.24
K01(min-1)	0.05	0.05	0.04	0.04	0.04	0.04	0.04	0.00
K10(min-1)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
AUC _{0-t} .min/mL	5204.80	4772.52	5181.46	5109.21	5560.45	5251.47	5179.98	253.58
K01-HL(min)	14.41	15.27	16.86	17.97	15.90	17.29	16.28	1.33
K10-HL(min)	66.59	67.64	66.83	61.99	65.34	65.99	65.73	1.99
Tmax(min)	49.71	51.70	52.25	51.04	43.96	50.02	49.78	3.01
Cmax	35.50	31.69	33.77	34.46	37.44	34.29	34.52	1.90

Table 40. 六隻大鼠口服 HBA 標準品 (400 mg/kg) 後之血清中濃度值

經 WINNONLIN 處理之相關藥動學參數

Parameters	No. 1	No. 2	No. 3	No. 4	No. 5	No. 6	Mean	S.D.
Volume/F	3.27	3.62	3.51	3.71	3.50	3.57	3.53	0.15
K01(min-1)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.00
K10(min-1)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
AUC _{0-t} .min/mL	10964.63	10790.86	10917.93	10517.03	11009.18	10833.62	10838.88	177.19
K01-HL(min)	18.38	15.73	15.96	15.59	16.98	16.21	16.48	1.05
K10-HL(min)	62.21	67.74	66.39	67.58	66.83	66.93	66.28	2.06
Tmax(min)	53.59	51.56	50.20	51.07	51.86	51.50	51.63	1.12
Cmax	73.27	70.99	72.60	69.48	71.61	71.30	71.54	1.32

Table 41. 六隻大鼠口服 uracil 標準品 (100 mg/kg) 後之血清中濃度

值經 WINNONLIN 處理之相關藥動學參數

Parameters	No. 1	No. 2	No. 3	No. 4	No. 5	No. 6	Mean	S.D.
V/F (L)	2.42	2.36	2.34	2.43	2.29	2.24	2.35	0.07
K ₀₁ (min ⁻¹)	0.04	0.03	0.04	0.05	0.04	0.03	0.04	0.01
K ₁₀ (min ⁻¹)	0.01	0.01	0.00	0.01	0.01	0.01	0.01	0.00
AUC (µg min/mL)	14288.72	13921.57	17991.26	16149.75	14091.31	13384.28	14971.15	1753.27
K ₀₁ -HL (min ⁻¹)	16.36	26.79	18.54	14.53	18.06	23.14	19.57	4.56
K ₁₀ -HL (min ⁻¹)	119.92	601.89	145.62	135.95	111.87	103.97	203.21	195.92
Tmax (min)	62.19	73.09	63.18	60.60	60.07	66.69	64.30	4.90
Cmax (µg/mL)	60.29	54.37	63.40	63.01	61.46	58.04	60.09	3.41

Table 42. 六隻大鼠口服 uracil 標準品 (200 mg/kg) 後之血清中濃度

值經 WINNONLIN 處理之相關藥動學參數

Parameters	No. 1	No. 2	No. 3	No. 4	No. 5	No. 6	Mean	S.D.
V/F (L)	2.53	2.31	2.44	2.54	2.71	2.60	2.52	0.14
K ₀₁ (min ⁻¹)	0.04	0.03	0.04	0.04	0.05	0.04	0.04	0.01
K ₁₀ (min ⁻¹)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
AUC (µg min/mL)	27452.98	28585.19	28204.57	27228.93	28485.50	22580.67	27089.64	2276.42
K ₀₁ -HL (min ⁻¹)	19.51	21.08	19.09	18.79	14.59	18.45	18.59	2.16
K ₁₀ -HL (min ⁻¹)	120.51	114.22	119.26	119.99	133.79	101.92	118.28	10.33
Tmax (min)	64.51	63.02	62.34	62.54	52.36	57.09	60.31	4.64
Cmax (µg/mL)	111.08	118.34	115.62	111.48	112.52	105.25	112.38	4.46

Table 43. 六隻大鼠口服 Gastrodin、HBA 及 Uracil 後之生體可用率

F (%)	1	2	3	4	5	6	Mean	S.D.	CV (%)
Gastrodin	51.30	66.79	60.47	44.84	56.95	71.43	58.63	9.80	16.72
HBA	69.43	74.48	85.95	88.17	82.09	84.86	80.83	7.32	9.06
Uracil	41.69	34.08	51.90	46.35	34.81	37.59	41.07	7.01	17.07