

1978

2004 34,427 2,284 7

1988

1 2 5 4 8

80 1,500

1994 6 1995 3

1997 7

“ ”

TDM

1999

1

2

3

4

5

6 15

7

1 3

5 19

GC/MS/MS

GC/MS

HPLC

HPLC

HPLC

LC/MS

b

2000

2005

9

1	2000	7	80		
2	2001	11	15		
3	2002	8	5		
4	2003	5	30		
5	2003	8	20		
6	2003	10	13		19
7	2004	1	13		15
8	2004	11	14		2
9	2005	4			3

15

Toxi-Lab

Triage

GC/MS

/GC

15

c

2001 2004

5

1	2000	3	7	8	50
2	2000	3	21	22	50
3	2002	12	4	5	49
4	2003	12	3	4	50
5	2004	12	2	3	48

HPLC  
OASIS  
NEXUS

HPLC

LC/MS/MS

GC/MS

ELISA

GC

GC

NEDO

ml-poison 1995

ml-poison

NHK

11

2

ml-poison

2005 5

600

Subject

1998

8

65

ml-poison

ml-anal

1999

ml-anal

ml-anal@hiroshima-u.ac.jp

ml-poison

400

(DB)

Web

DB

Web

DB

DB

DB

DB

1

<http://133.41.195.183/pdatabase/YDB/index.html>

DB

UserID

DB

hir

ug/ml

2092

-

2

<http://133.41.195.185:8080/bun-p/index.html>

900

900

DB

sample

method

subject

sample

blood

authentics

serum/plasma

tissue others

method

TLC

HPLC

UV-VIS

GC/MS

others

GC

Immunoassay

MS

LC/MS

Subject

sample	serum/plasma	method	HPLC	methamphetamine			
subject	classification	title	source	volume	author	sample	serum/plasma method
internal standard	extraction procedures	analysis conditions	derivatization	linear range			
detection limits	concentration					DB	
(	B-1	10	12	)			
	DB						

<http://maple-www2.med.hiroshima-u.ac.jp/pdatabase/name.pdf>

3

<http://maple-www2.med.hiroshima-u.ac.jp/pdatabase/bunseki/index.htm>  
Explorer Netscape

TDx	REMEDi-HS	LSD	Triage	Toxi Lab	EMIT
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4

pdf  
<http://maple-www2.med.hiroshima-u.ac.jp/pdatabase/SDM/index.htm>

1.	1	2	3	2.	1
	2				
			CO		

<http://maple-www2.med.hiroshima-u.ac.jp/pdatabase/SDM-V2/index.htm>

5

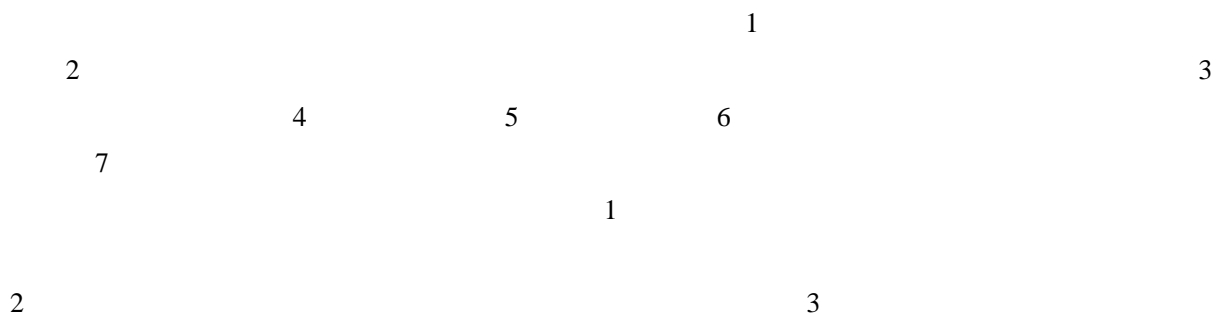
<http://maple-www2.med.hiroshima-u.ac.jp/poison-1/report98.pdf>  
pitfall

1

2







1	1999	11	10	8	42
2	2000	12	4	1	66
			DCPA NAC		
3	2001	13	7	31	43
4	2001	13	12	20	66
5	2002	14	12	25	82

1

2

6 2003 15 9 29 67

7 2004 16 12 27 79

1

2

1

2

1999 2004 7

2000 73 2001 73 2002 165

2003 170 2004 174

ml-trial

80