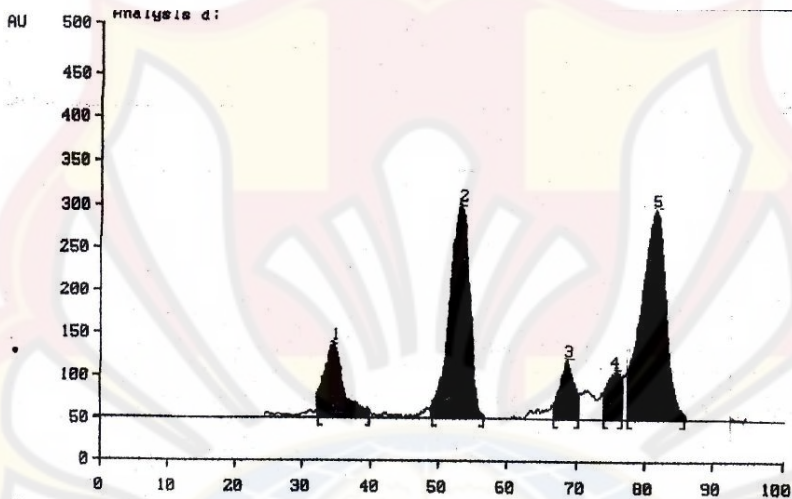


LAMPIRAN A

CONTOH PERHITUNGAN RESOLUSI ANALIT (R_s)



Diketahui :

-Jarak yang ditempuh oleh fenilbutazon (t_{R1}) = 33 mm

-Jarak yang ditempuh oleh parasetamol (t_{R2}) = 52 mm

-Lebar noda fenilbutazon (W_1) = 10 mm

-Lebar noda parasetamol (W_2) = 10 mm

$$R_s \text{ F-P} = \frac{2 (t_{R2} - t_{R1})}{W_1 + W_2}$$

$$= \frac{2 (52 - 33)}{10 + 10}$$

$$= 1,9$$

LAMPIRAN B
CONTOH PERHITUNGAN PERSEN REKOVERI

Persen rekovert parasetamol

Konsentrasi yang diperoleh = 2,79 µg/ml

Konsentrasi sebenarnya = 2,83 µg/ml

$$\begin{aligned}\text{Persen rekovert} &= \frac{\text{Konsentrasi yang diperoleh}}{\text{Konsentrasi sebenarnya}} \times 100\% \\ &= \frac{2,79}{2,83} \times 100\% \\ &= 98,59\%\end{aligned}$$

LAMPIRAN C
CONTOH PERHITUNGAN AKURASI DAN PRESISI
PARASETAMOL

Harga rata-rata persen rekoveri = 98,23%

μ (harga sebenarnya) = 100%

C	Replikasi	Area	Kadar pengamatan	Kadar sebenarnya	%rekoveri	$(x - \bar{x})^2$
80%	1	12135,2	2,77	2,83	97,88	0,12
	2	12190,7	2,79	2,83	98,59	0,13
	3	12172,1	2,78	2,83	98,23	0,00
					$\bar{x}$	$\Sigma =$
					98,23	0,25

$$SD = \sqrt{\frac{\Sigma(x - \bar{x})^2}{(n-1)}}$$

$$= \sqrt{\frac{0,25}{(3-1)}}$$

$$= 0,35$$

$$t \text{ hitung} = \frac{(\bar{x} - \mu)}{SD / \sqrt{n}}$$

$$= \frac{(98,23 - 100)}{0,35 / \sqrt{3}}$$

$$= -8,85$$

$$KV = \frac{SD}{\bar{x}} \times 100\%$$

$$= \frac{0,356}{98,23} \times 100\%$$

$$= 0,36$$

LAMPIRAN D
CONTOH PERHITUNGAN LOD DAN LOQ PARASETAMOL

Konsentrasi (µg / ml)	Area	$\hat{y}$	$(y - \hat{y})^2$	Keterangan
1,82	9432,7	9415,93	281,23	a = 4213,1107
2,55	11509,3	11502,77	42,64	b = 2858,6894
3,64	14628,7	14618,74	99,20	r hitung (0,9998) > r
4,73	17600,2	17734,71	18092,94	tabel (0,878)
5,46	19922,8	19821,55	10251,56	y = 2858,6894 x +
		$\Sigma(y - \hat{y})^2$	28767,57	4213,1107
				LOD = 0,103 µg
				LOQ = 0,343 µg

$$SB = \left(\frac{\Sigma (y - \hat{y})^2}{n - 2} \right)^{\frac{1}{2}}$$

$$= 97,92$$

$$LOD = a + 3 \cdot SB$$

$$= 4213,1107 + 3 \cdot 97,92$$

$$= 4506,87$$

$$\hat{x} = 0,103 \mu\text{g}$$

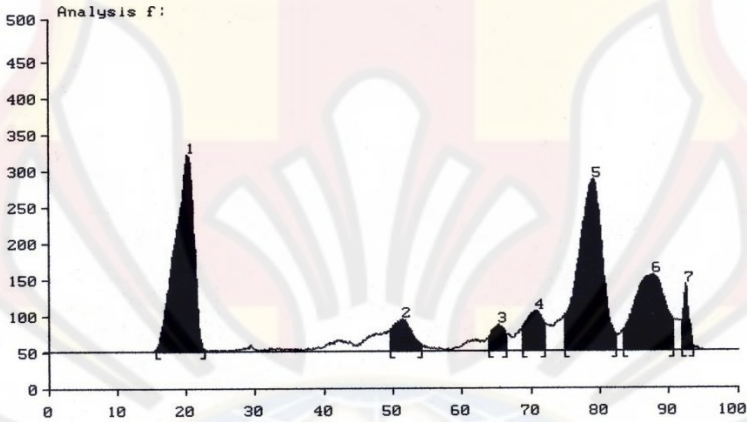
$$LOQ = a + 10 \cdot SB$$

$$= 4213,1107 + 10 \cdot 97,92$$

$$\hat{x} = 0,343 \mu\text{g}$$

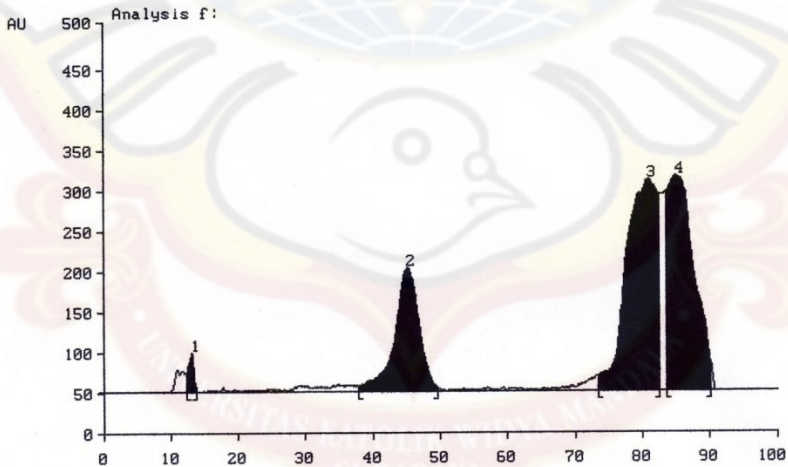
LAMPIRAN E

GAMBAR KROMATOGRAM UJI SELEKTIVITAS



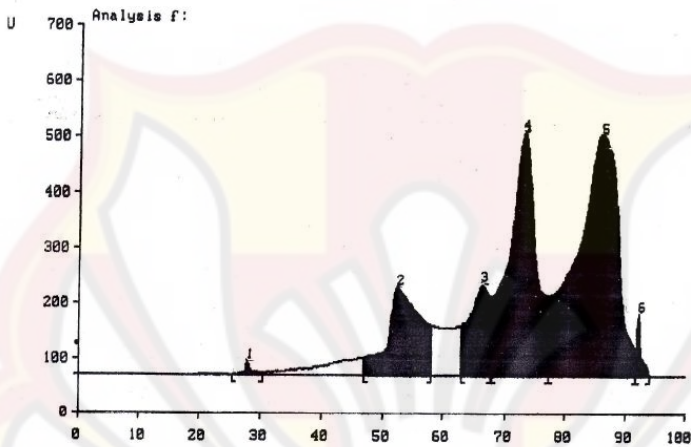
Kromatogram Campuran dengan fase gerak Kloroform : Aseton : Toluena (4:1:1,%v/v/v).

Keterangan : 1= Parasetamol; 2,3,4,6,7 = Matriks; 5 = Fenilbutazon



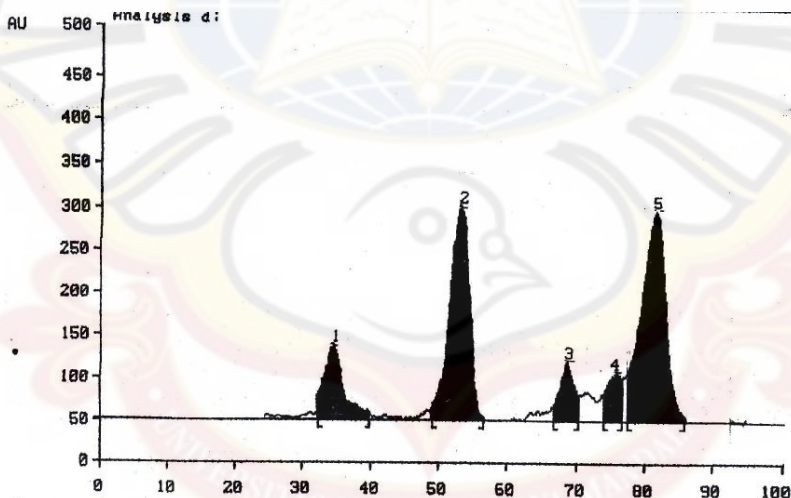
Kromatogram Campuran dengan Fase Gerak Metanol : Kloroform (3:7,%v/v).

Keterangan : 3 = Parasetamol; 1,2,4 = Matriks.



Kromatogram Campuran dengan Fase Gerak Etil asetat : Metanol : Amonia pekat (85:15:5,%v/v/v).

Keterangan : 2 = Fenilbutazon; 4 = Parasetamol; 3,5,6,7 = Matriks.

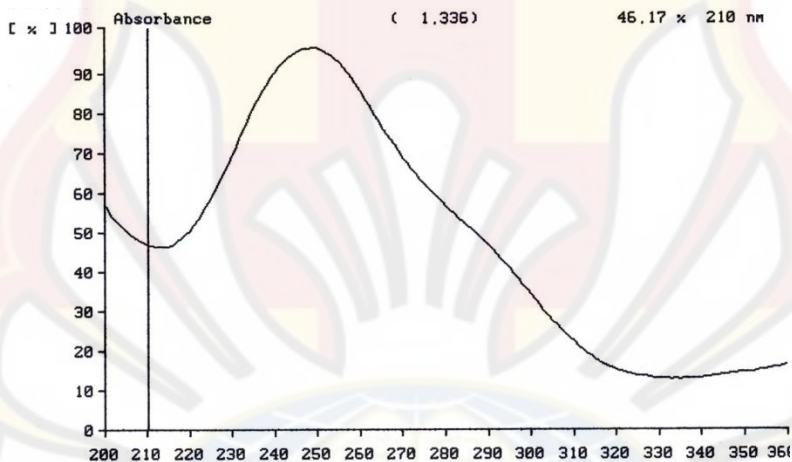


Kromatogram Campuran dengan Fase Gerak Kloroform : Metanol : Amonia pekat (80:15:5,%v/v/v).

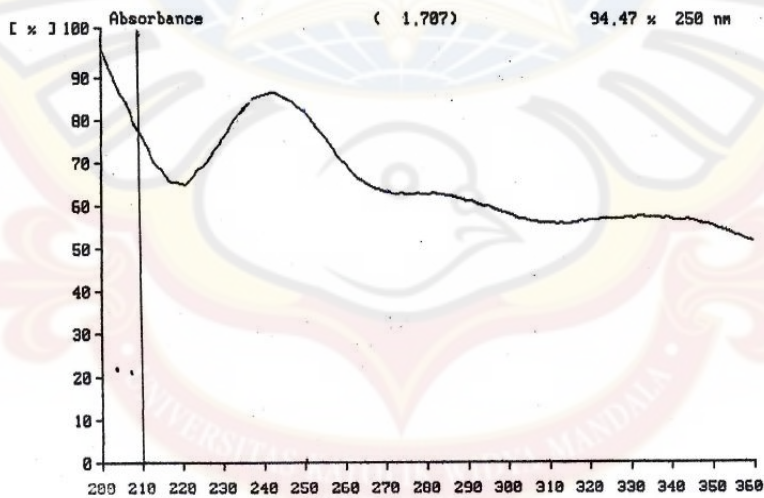
Keterangan : 1 = Fenilbutazon; 2 = Parasetamol; 3,4,5 = Matriks.

LAMPIRAN F

GAMBAR SPEKTRUM DARI MASING-MASING ZAT



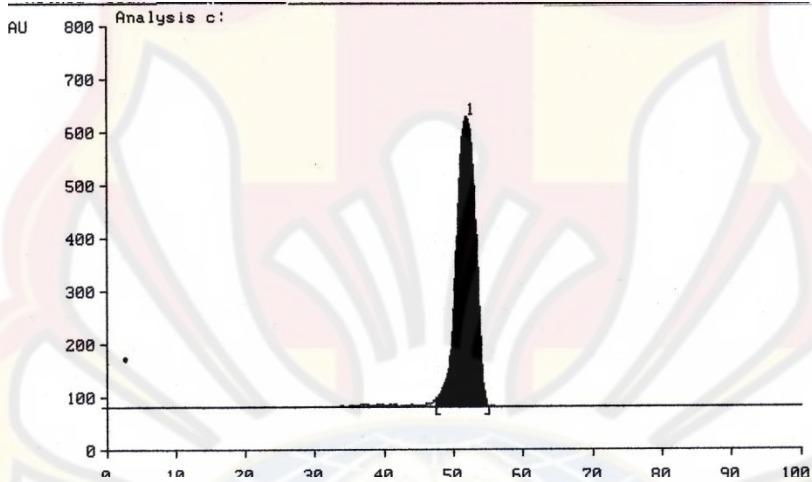
Spektrum Parasetamol dalam metanol



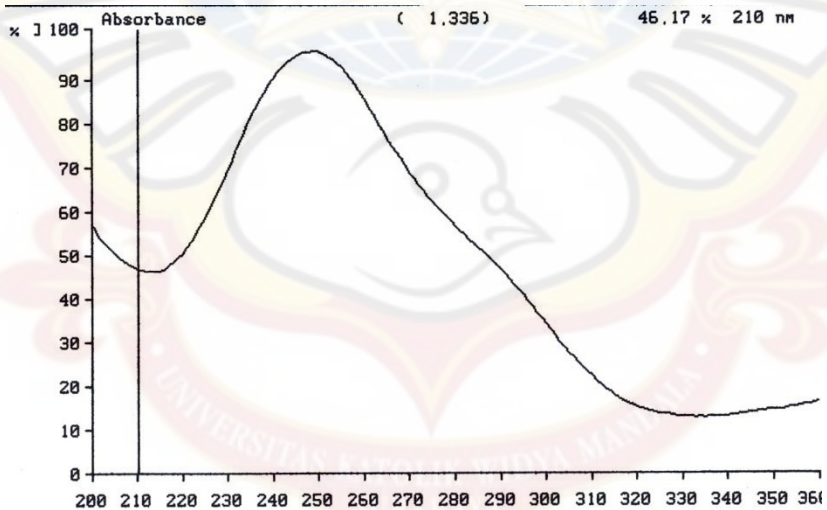
Spektrum Fenilbutazon dalam metanol

LAMPIRAN G

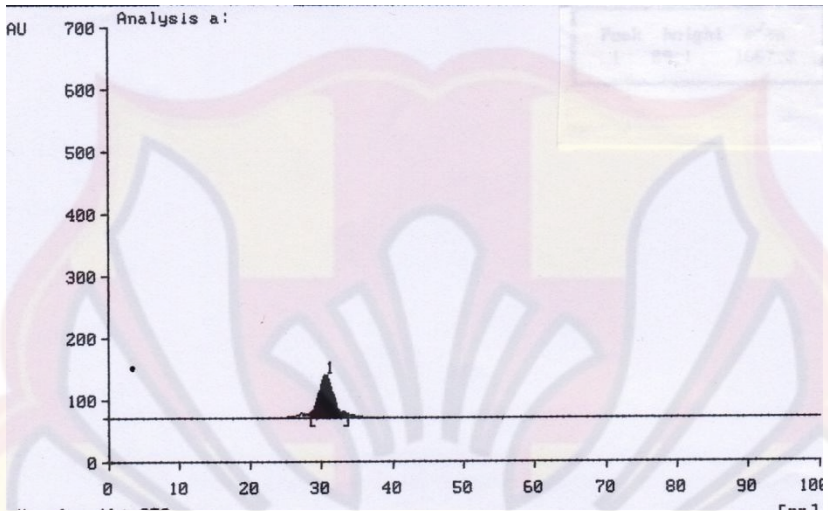
GAMBAR KROMATOGRAM DAN SPEKTRUM SAMPEL A



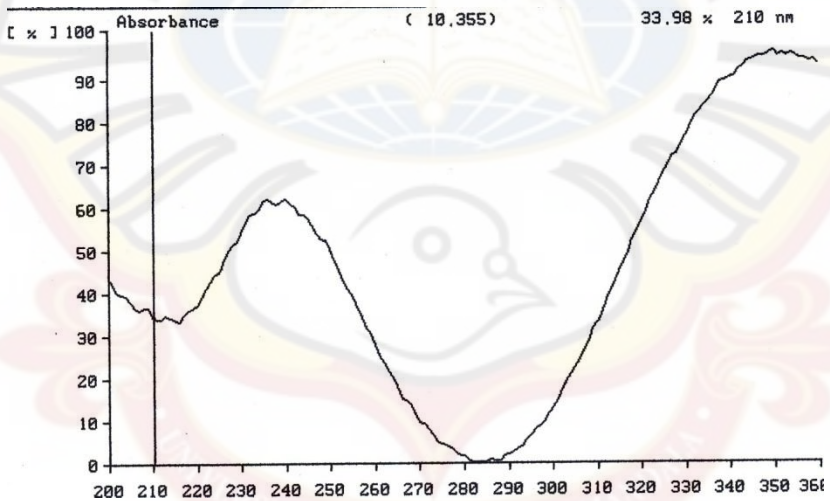
Kromatogram Sampel A dibandingkan dengan Parasetamol



Spektrum Sampel A dibandingkan dengan Parasetamol



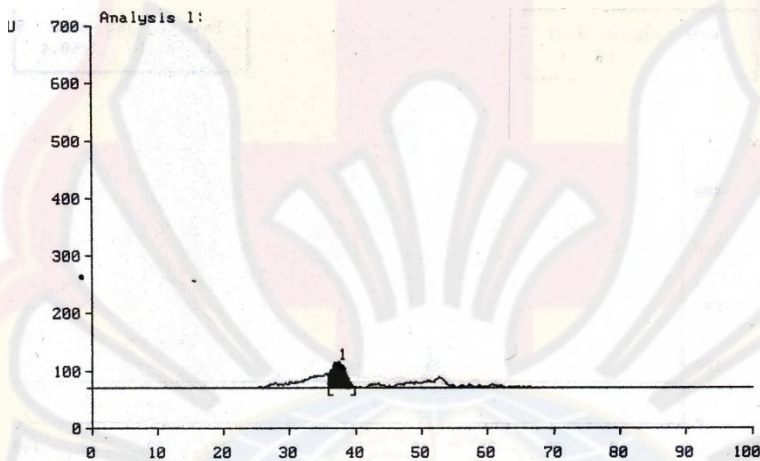
Kromatogram Sampel A dibandingkan dengan Fenilbutazon



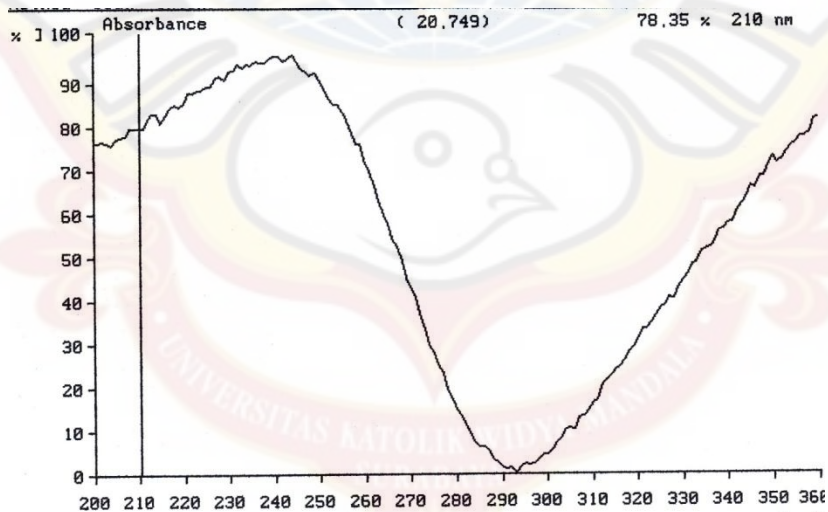
Spektrum Sampel A dibandingkan dengan Fenilbutazon

LAMPIRAN H

GAMBAR KROMATOGRAM DAN SPEKTRUM SAMPEL B



Kromatogram Sampel B dibandingkan dengan Fenilbutazon



Spektrum Sampel B dibandingkan dengan Fenilbutazon

LAMPIRAN I
TABEL HARGA r

N	Taraf Signif		N	Taraf Signif		N	Taraf Signif	
	5%	1%		5%	1%		5%	1%
3	0,997	0,999	26	0,388	0,496	55	0,266	0,345
4	0,950	0,990	27	0,381	0,487	60	0,254	0,330
5	0,878	0,959	28	0,374	0,478	65	0,244	0,317
			29	0,367	0,470	70	0,235	0,306
6	0,811	0,917	30	0,361	0,463	75	0,227	0,296
7	0,754	0,874						
8	0,707	0,834	31	0,355	0,456	80	0,220	0,286
9	0,666	0,798	32	0,349	0,449	85	0,213	0,278
10	0,632	0,765	33	0,344	0,442	90	0,207	0,270
			34	0,339	0,436	95	0,202	0,263
11	0,602	0,735	35	0,334	0,430	100	0,195	0,256
12	0,576	0,708						
13	0,553	0,684	36	0,329	0,424	125	0,176	0,230
14	0,532	0,661	37	0,325	0,418	150	0,159	0,210
15	0,514	0,641	38	0,320	0,413	175	0,148	0,194
			39	0,316	0,408	200	0,138	0,181
16	0,497	0,623	40	0,312	0,403	300	0,113	0,148
17	0,482	0,606						
18	0,468	0,590	41	0,308	0,398	400	0,098	0,128
19	0,456	0,575	42	0,304	0,393	500	0,088	0,115
20	0,444	0,561	43	0,301	0,389			
			44	0,297	0,384	600	0,080	0,105
21	0,433	0,549	45	0,294	0,380	700	0,074	0,097
22	0,423	0,537						
23	0,413	0,526	46	0,291	0,376	800	0,070	0,091
24	0,404	0,515	47	0,288	0,372	900	0,065	0,086
25	0,396	0,505	48	0,284	0,368			
			49	0,281	0,364	1.000	0,062	0,081
			50	0,279	0,361			

Dikutip dari : Riduwan, 2003, **Dasar-Dasar Statistika**, Alfabeta, Bandung.

LAMPIRAN J
TABEL HARGA

t

α Untuk Uji Dua Pihak						
	0,50	0,20	0,10	0,05	0,02	0,01
dk	α Untuk Uji Satu Pihak					
	0,25	0,10	0,05	0,025	0,01	0,005
1	1,000	3,078	6,314	12,706	31,821	63,657
2	0,816	1,886	2,920	4,303	6,965	9,925
3	0,765	1,638	2,353	3,182	4,541	5,841
4	0,741	1,533	2,132	2,776	3,747	4,604
5	0,727	1,476	2,015	2,571	3,365	4,032
6	0,718	1,440	1,943	2,447	3,143	3,707
7	0,711	1,415	1,895	2,365	2,998	3,499
8	0,706	1,397	1,860	2,306	2,896	3,355
9	0,703	1,383	1,833	2,262	2,821	3,250
10	0,700	1,372	1,812	2,228	2,764	3,169
11	0,697	1,363	1,796	2,201	2,718	3,106
12	0,695	1,356	1,782	2,178	2,681	3,055
13	0,694	1,350	1,771	2,160	2,650	3,012
14	0,692	1,345	1,761	2,145	2,624	2,977
15	0,691	1,341	1,753	2,132	2,623	2,947
16	0,690	1,337	1,746	2,120	2,583	2,921
17	0,689	1,333	1,740	2,110	2,567	2,898
18	0,688	1,330	1,734	2,101	2,552	2,878
19	0,688	1,328	1,729	2,093	2,539	2,861
20	0,687	1,325	1,725	2,086	2,528	2,845
21	0,686	1,323	1,721	2,080	2,518	2,831
22	0,686	1,321	1,717	2,074	2,508	2,819
23	0,685	1,319	1,714	2,069	2,500	2,807
24	0,685	1,318	1,711	2,064	2,492	2,797
25	0,684	1,316	1,708	2,060	2,485	2,787
26	0,684	1,315	1,706	2,056	2,479	2,779
27	0,684	1,314	1,703	2,052	2,473	2,771
28	0,683	1,313	1,701	2,048	2,467	2,763
29	0,683	1,311	1,699	2,045	2,462	2,756
30	0,683	1,310	1,697	2,042	2,457	2,750
40	0,681	1,303	1,684	2,021	2,423	2,704
60	0,679	1,296	1,671	2,000	2,390	2,660
120	0,677	1,289	1,658	1,980	2,358	2,617
	0,674	1,282	1,645	1,960	2,326	2,576

Dikutip dari : Riduwan, 2003, **Dasar-Dasar Statistika**, Alfabeta, Bandung.

LAMPIRAN K

SERTIFIKAT PARASETAMOL

常熟华港制药有限公司

CHANGSHU HUAGANG PHARMACEUTICALS CO.,LTD.

检验报告单 (ORIGINAL)
Certificate of Analysis (ORIGINAL)

品名 Product Name	扑热息痛 普通粉 Paracetamol Normal grade	包装规格 Packing	25kgs/drum
批号 Batch No.	DKS1001612	数量 Quantity	1000kg
生产日期 Manufacture Date	24-01-2010	有效期 Expiry Date	23-01-2014
检验标准 Suandard	BP2002/USP26		

检验结果
Examination
L/C NO.:225LC90193B
DATE:NOV 11,2009
INVOICE NO.:CSHG100125
DATE:JAN 25,2010

项 目 Contents	标 准 Specification	结 果 Results
性 状 Characters	白色结晶性粉末 White crystalline powder	白色结晶性粉末 White crystalline powder
鉴 别 Identification	A.B.C.D.E 呈正反应 A.B.C.D.E Positive	A.B.C.D.E 呈正反应 A.B.C.D.E Positive
熔 点 Melting range	168-172℃	169-170℃
相关物质 Related substance	Complies	Complies
氯化物 Chloride	≤0.014%	Complies
硫酸盐 Sulfate	≤0.02%	Complies
硫化物 Sulfide	Complies	Complies
重金属 Heavy metals	≤0.001%	Complies
游离对氨基酚 Free p-Aminophenol	≤0.005%	Complies
对氯乙酰苯胺 chloracetanilide	≤0.001%	Complies
易炭化物 Readily carbonizable substances	Complies	Complies
有机挥发性杂质 Organic volatile impurities	Complies	Complies
水份 Water	≤0.5%	0.08%
炽灼残渣 Residue on ignition	≤0.1%	0.02%
含 量 Assay	99.0-101.0%	100.6%

结论:

按 BP2002/USP26 版检验符合规定

Conclusion: It complies with requirements of the BP2002/USP26

It complies with requirements of the BP2002/USP26

检验者:

Inspector: Zhao liqin Wang qing



1.11.10 王清