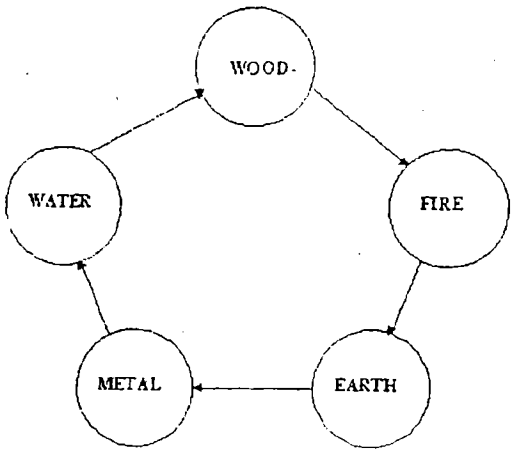
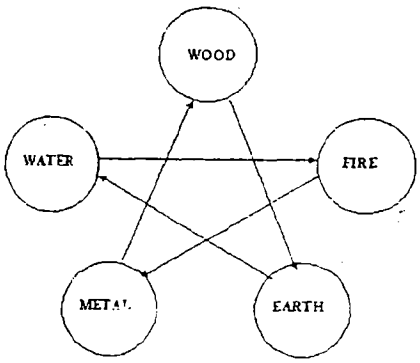
Figure 1



Productive cycle

Figure A shows the element that helps the other element



Controlling cycle

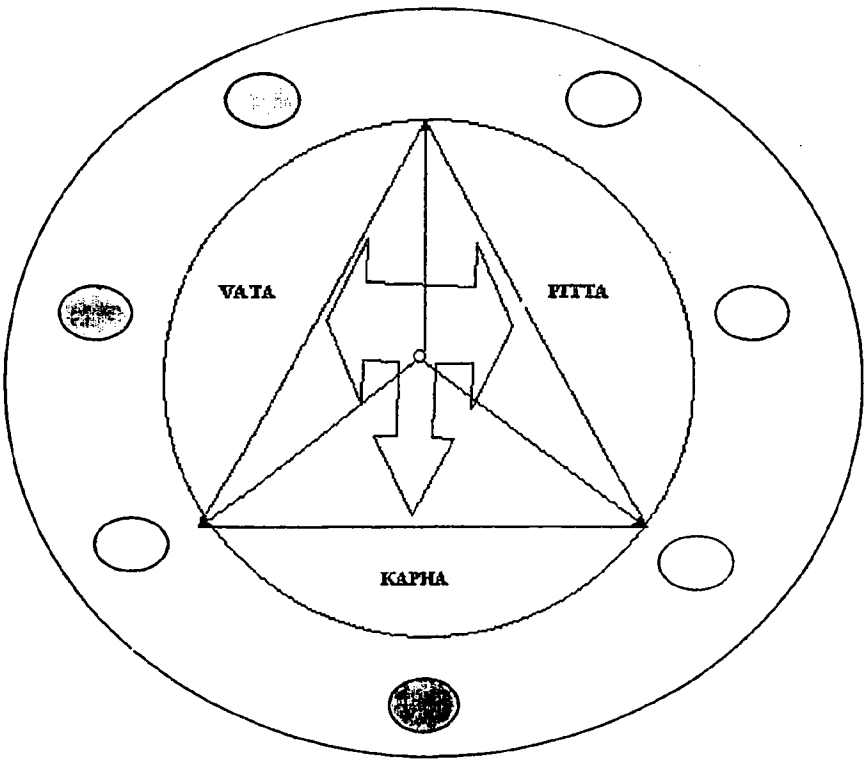
Figure B shows the element that controls the other element

Any imbalance (excess or deficiency) of one element leads to disturbance in other elements and becomes the root cause of a disease. The health of human body is achieved by managing and controlling the above elements in Chinese medicine. Most of the world traditional philosophies follow the same concept.

Figure 2

Relation of colors with humors

VATA	KAPHA	PITTA

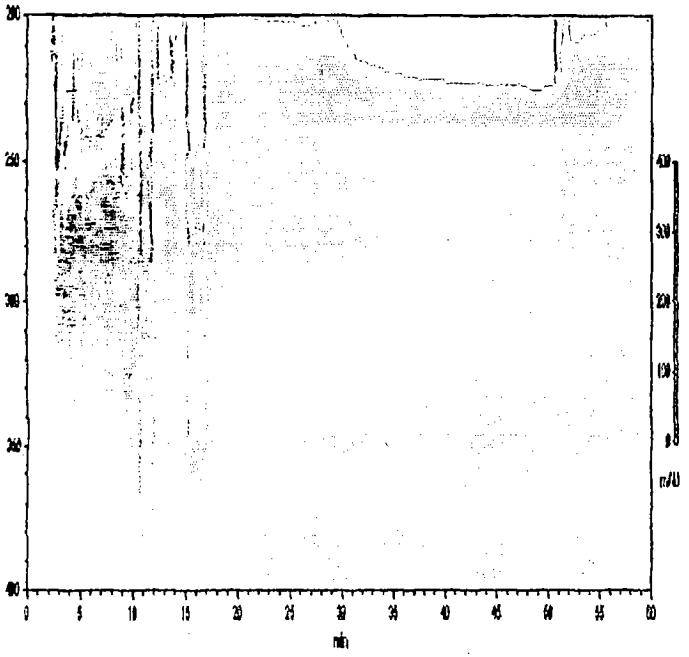


The above diagram shows the effect of colors on the basic humors based on which the medicines of the same colors were selected for vitiating the corresponding humor. The colors of the leaves, flowers, various parts of the plants and the organo-metallic formulations were taken in to consideration to understand the therapeutic efficacy of traditional medicines. The colors of the medicines is due to the chemical properties of the constituents present in it, thus indirectly the chemical properties were used for the therapeutic standardization.

This table was prepared based on ancient knowledge

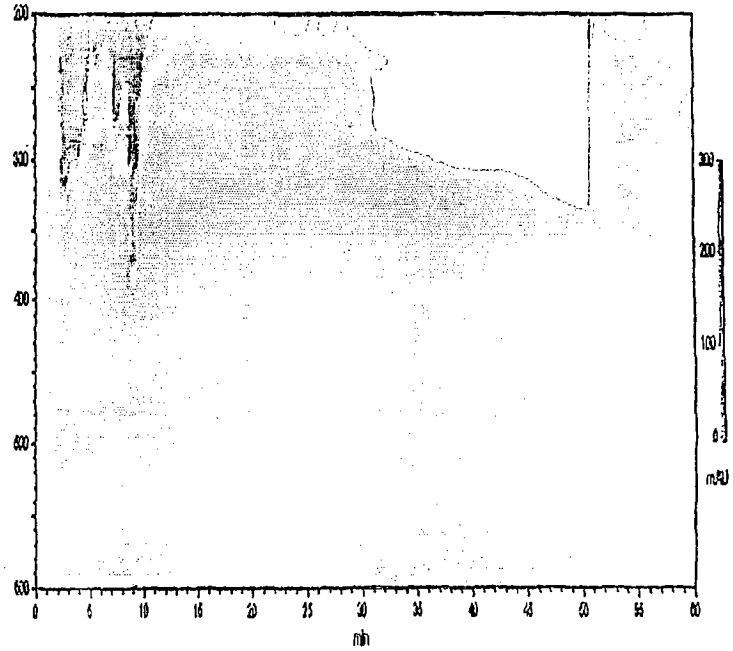
Figure 3

THE SHILAJIT EXAMPLE



SHILAJIT

GOOD BY EFFICACY



SHILAJIT

POOR BY EFFICACY

THE CHEMICAL PROFILE IN THE FINGER PRINT SHOWS THE THERAPEUTIC EFFICACY DUE TO THE PRESENCE OF MORE NUMBER OF MOLECULES WITH WIDE CONJUGATIVE PROPERTIES.

THE CHEMICAL PROFILE VARIES WITH THE AGE OF THE SAMPLE, IT SPENT IN THE EARTH,

THE MORE IT IS OLD, THE MORE IT WILL BE THERAPEUTICALLY ACTIVE AND MAY ALSO DEPEND ON THE PLACE OF COLLECTION AND PURIFICATION PROCESS.

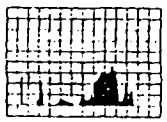
Figure 4

Herbal formulations with the same ingredients may differ substantially in safety and efficacy depending on the quality and processing of the herbs. Careful selection of herbs, stringent quality control and Chromatographic fingerprinting ensure that the final product delivers the same benefits that have been proven in clinical studies.

Each *Ayurvedic* CONCEPTS formula represents the results of subjecting ancient Ayurvedic knowledge to rigorous modern research and scientific analysis. These products are manufactured according to the rigid standards of modern pharmaceutical technology.



Chromatogram of Daily Health Capsule



Chromatogram of Amra

Store in a cool, dry place.
Keep out of the reach of children.

Research expertise by:
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Ayurvedic CONCEPTS

Daily Health Capsules

Antistressor • Rejuvenator
Amla • Licorice
• Natural Zinc

60 CAPSULES

Each capsule contains:

Pdrs.	
Amalaki	90 mg
Garijara	90 mg
Yashad bhasma	1.94 mg
Exts.	
Amra	120 mg
Yashti-madhu	25 mg
Lavanga	25 mg
Draksha	10.50 mg
Oil	
Godhuma	17.56 mg

Dosage:
2 capsules twice a day.

Natural products provide gradual but long-lasting results. Allow several weeks for full benefits.

Mfg.Lic. No.:AU/S-83

M.R.P.: Rs.60.00
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Stress has become part of life today. Continued stress disrupts the immune system leading to chronic fatigue, hypertension. Pollution and chemicals cause oxidative damage to the body by the release of free radicals, thereby disturbing normal body functions.

Daily Health capsules are non-sedating, rich in anti-oxidant vitamins in the form of *Amra* and *Garijara* (vit.A), *Amalaki* (Amla) (vit.C), and *Lavanga* (Clove), *Draksha* (Grapes) and *Godhuma* (Wheatgerm) oil (vit.E). *Yashti-madhu* (Licorice) and Yashad bhasma (Natural Zinc) are excellent immune-stimulants that bolster the body's defence mechanism keeping you fit and healthy.

Clinical trials on the product have proved it to be beneficial in the treatment of stress of various origin.

Ayurvedic Proprietary Medicine.

Completely safe. Non-toxic.

NON-SEDATING.

The chromatographic fingerprint does not give any clear information about the polarity and conjugative properties of the constituents.

WO 02/49739
4/115
PCT/IN00/00123
07 JUN 2005

Figure 5

CHROMATOGRAMS OF A COMMERCIAL TURMERIC POWDER AT AT DIFFERENT WAVELENGTHS

(The existing method)

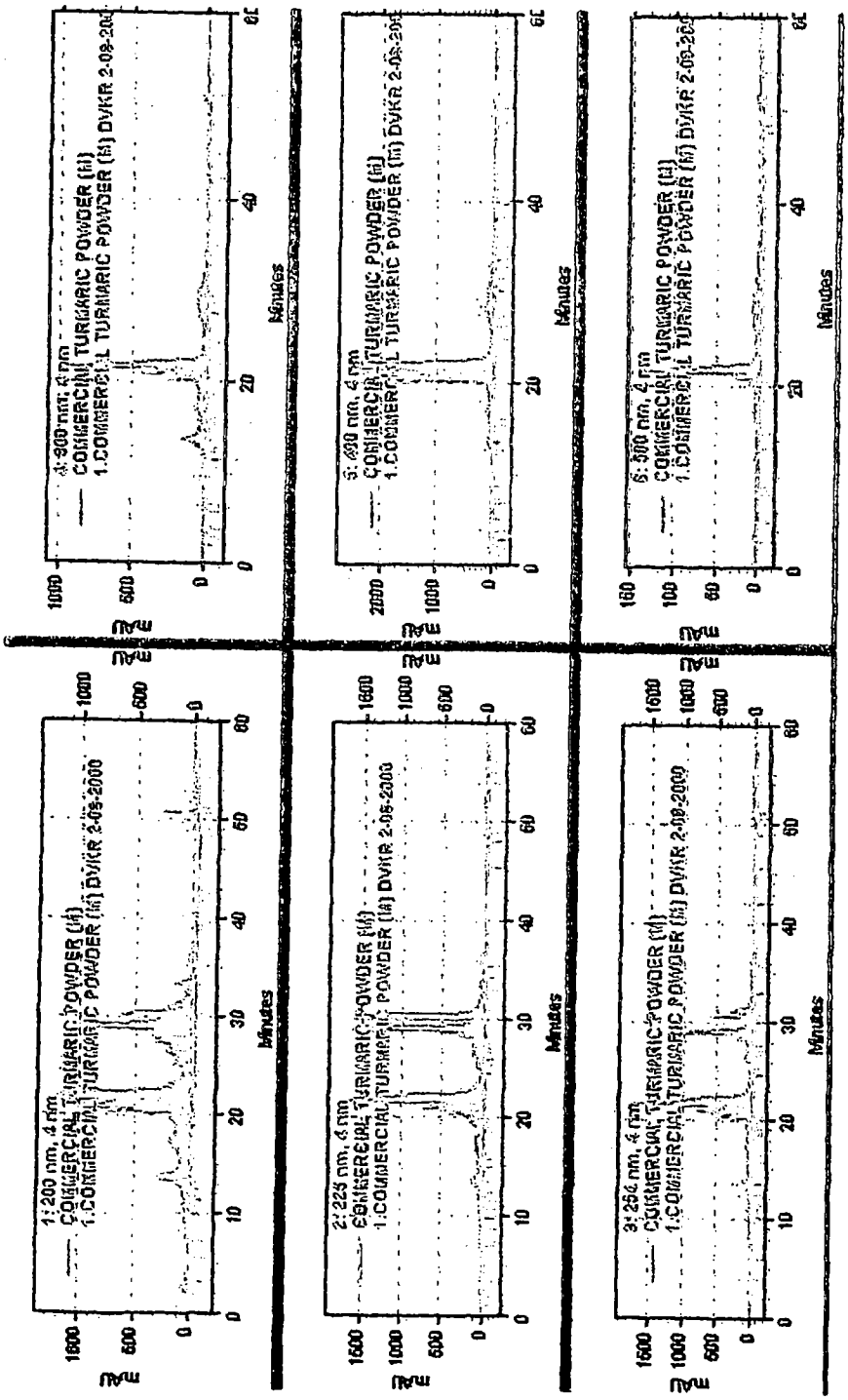


Figure 6

CHROMATOGRAMS OF A FURAZOLIDINE MEDICINE

AT DIFFERENT WAVELENGTHS

(The existing method)

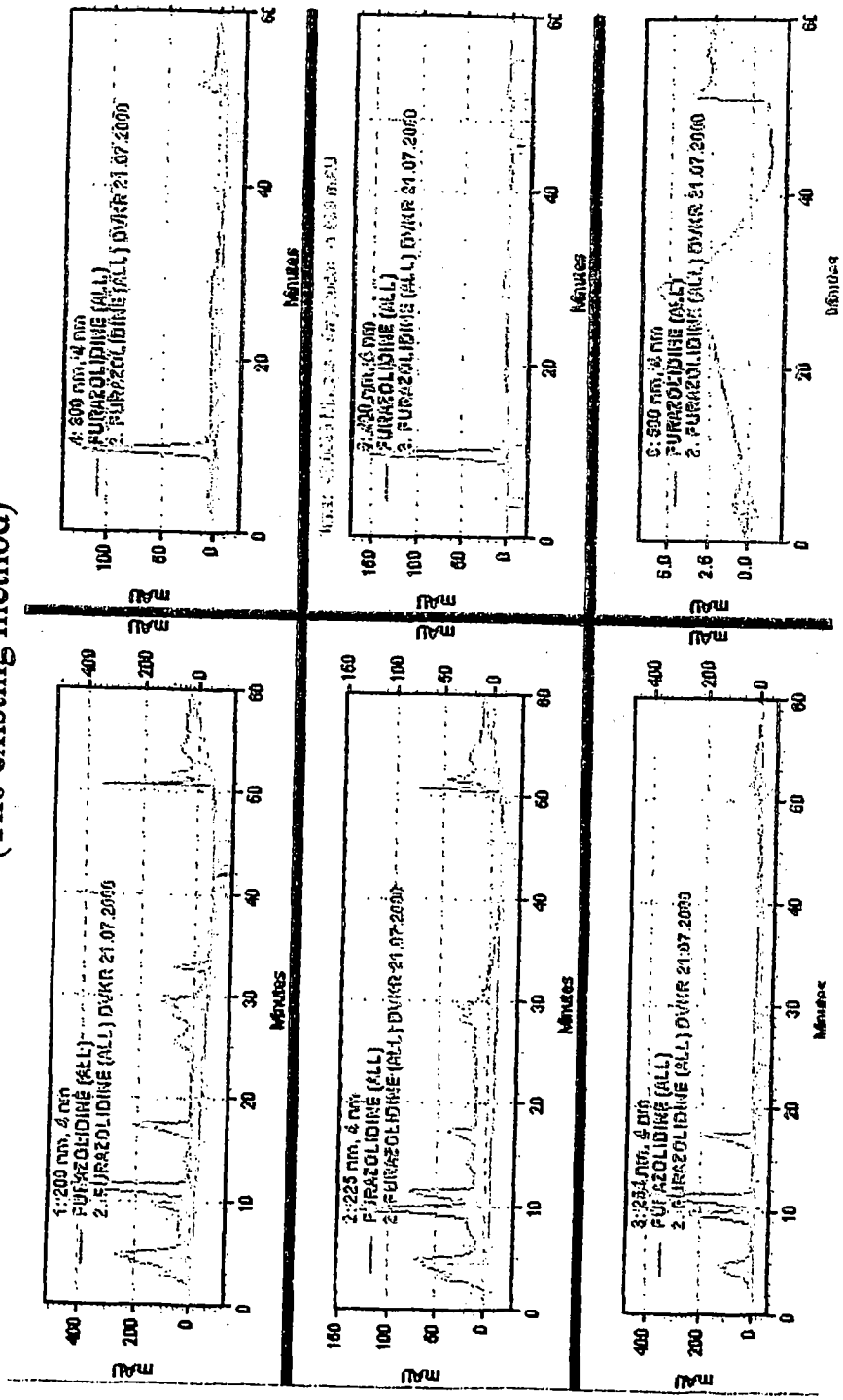


Figure : 7

CHROMATOGRAMS OF A HERBAL FORMULATION

KRIMIKUTARA RAS

AT DIFFERENT WAVELENGTHS

(The existing method)

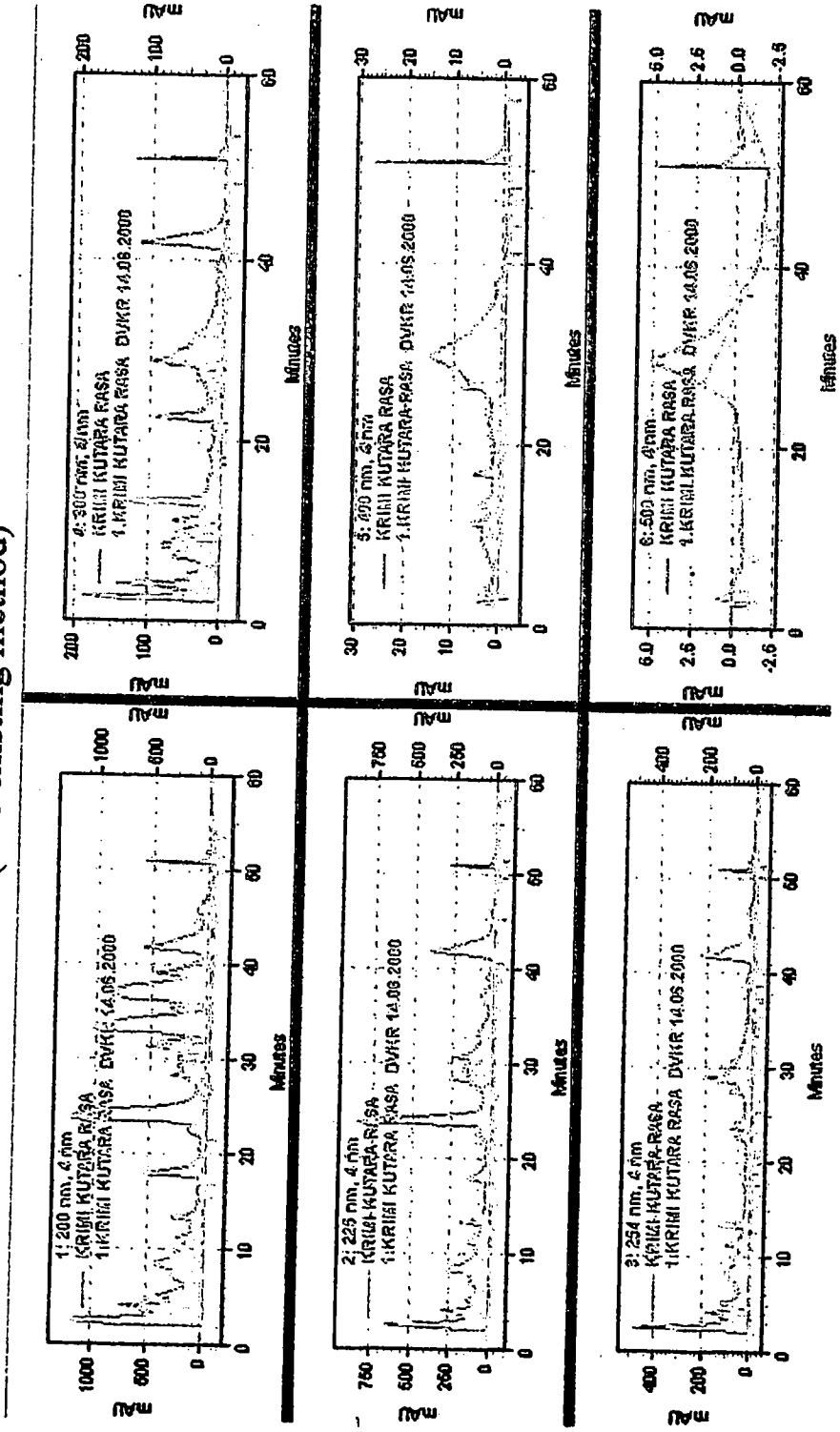


Figure 8

CHROMATOGRAMS OF A HERBOMINERAL MEDICINE

SHILAJIT (GOOD BY EFFICACY)

AT DIFFERENT WAVELENGTHS

(The existing method)

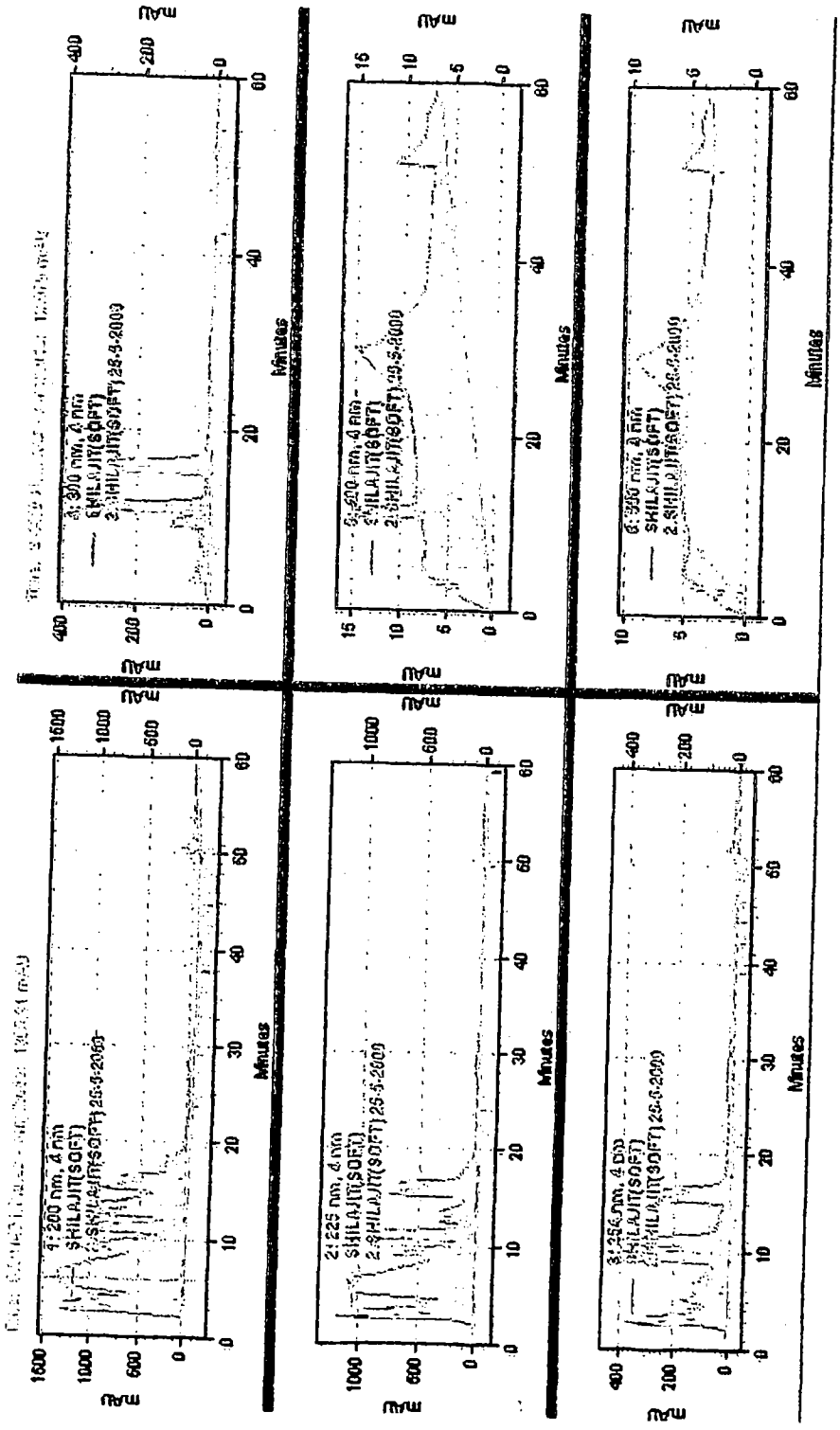


Figure 9

CHROMATOGRAMS OF A HERBOMINERAL MEDICINE

SHILAJIT (POOR BY EFFICACY)

AT DIFFERENT WAVELENGTHS

(The existing method)

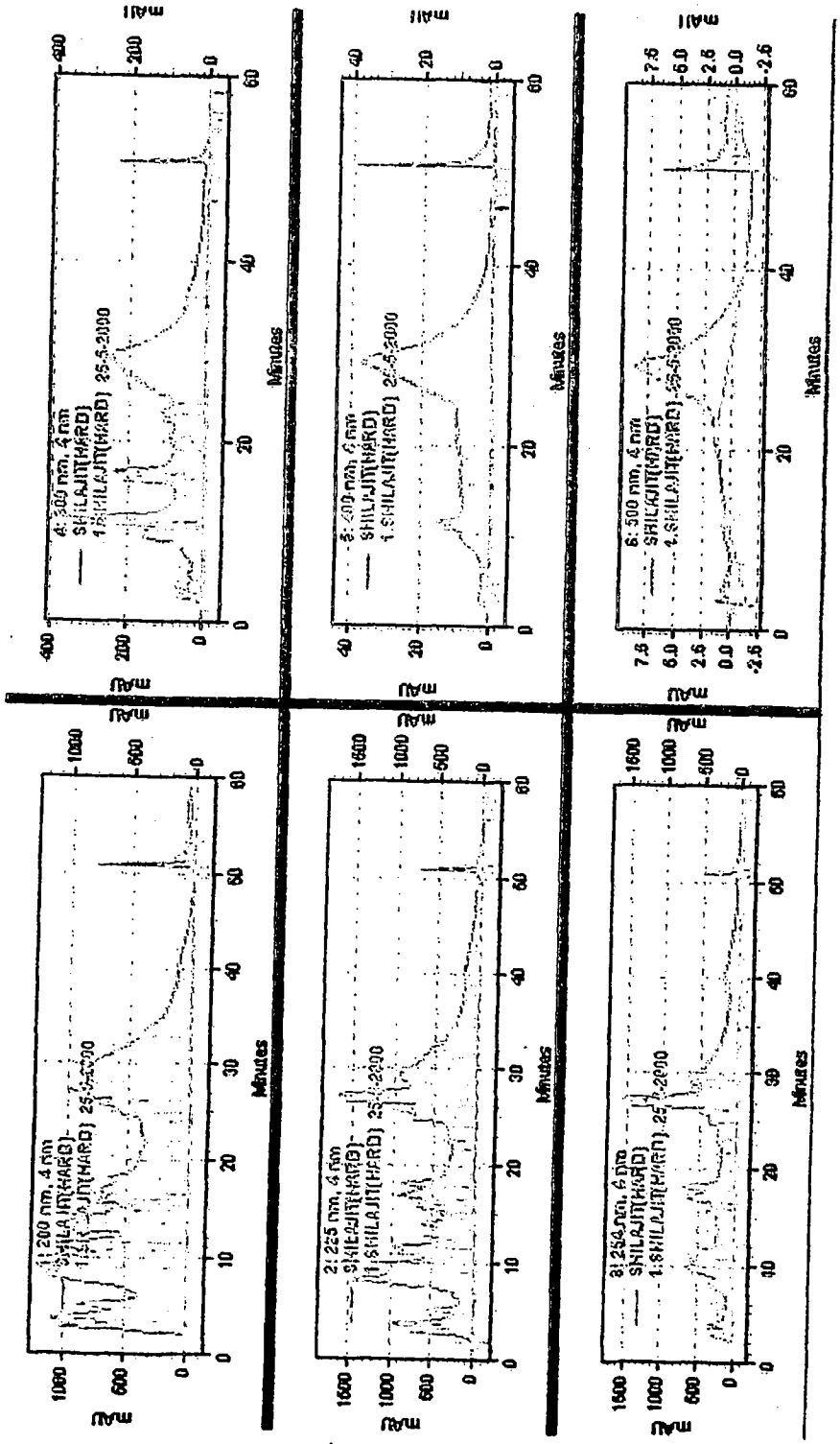


Figure 10

CHROMATOGRAMS OF A HERBAL FORMULATION

SURYAVARTI

AT DIFFERENT WAVELENGTHS

(The existing method)

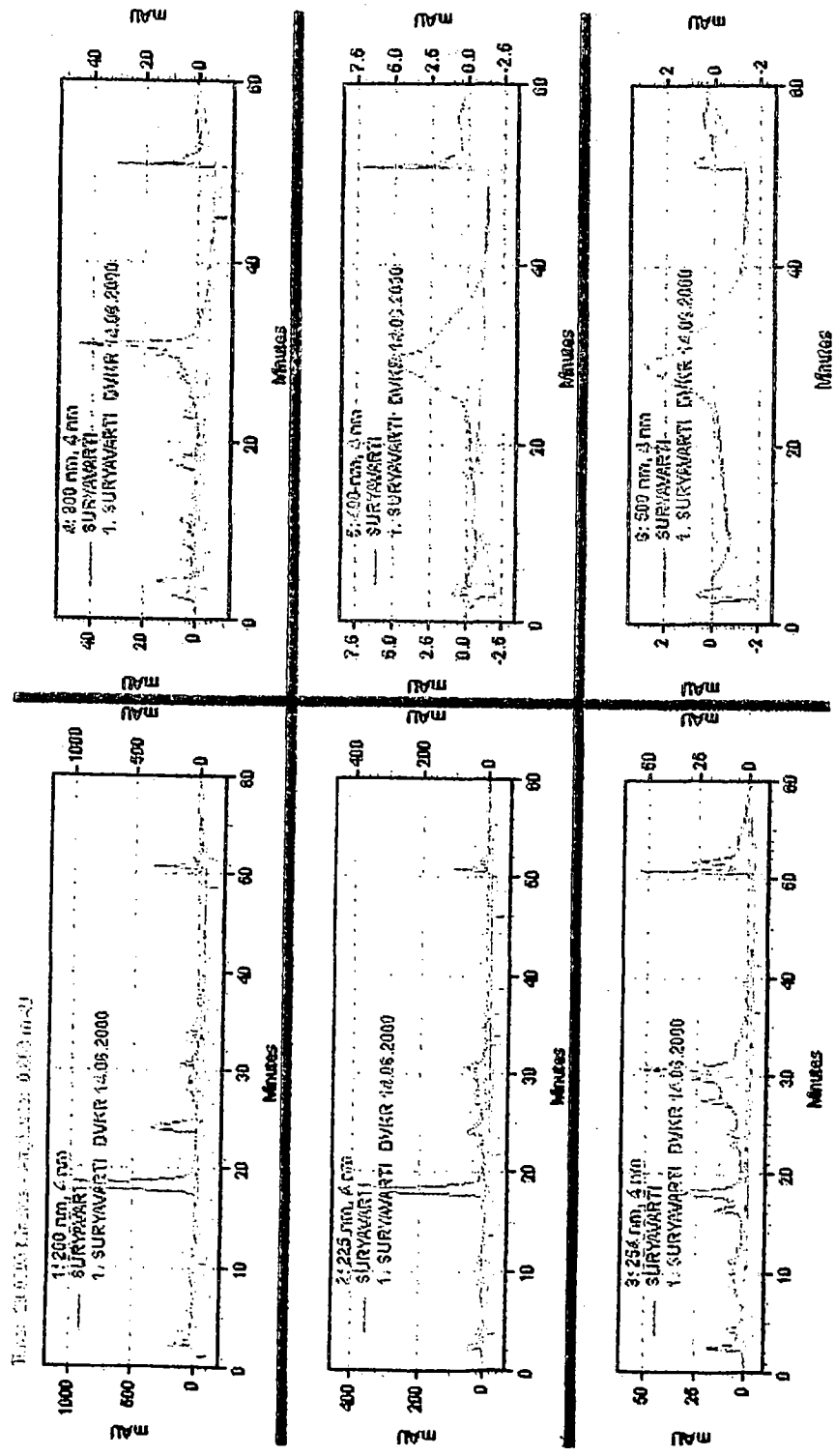


Figure 11

CHROMATOGRAMS OF A HERBAL FOOD PRODUCT

TEA

AT DIFFERENT WAVELENGTHS

(The existing method)

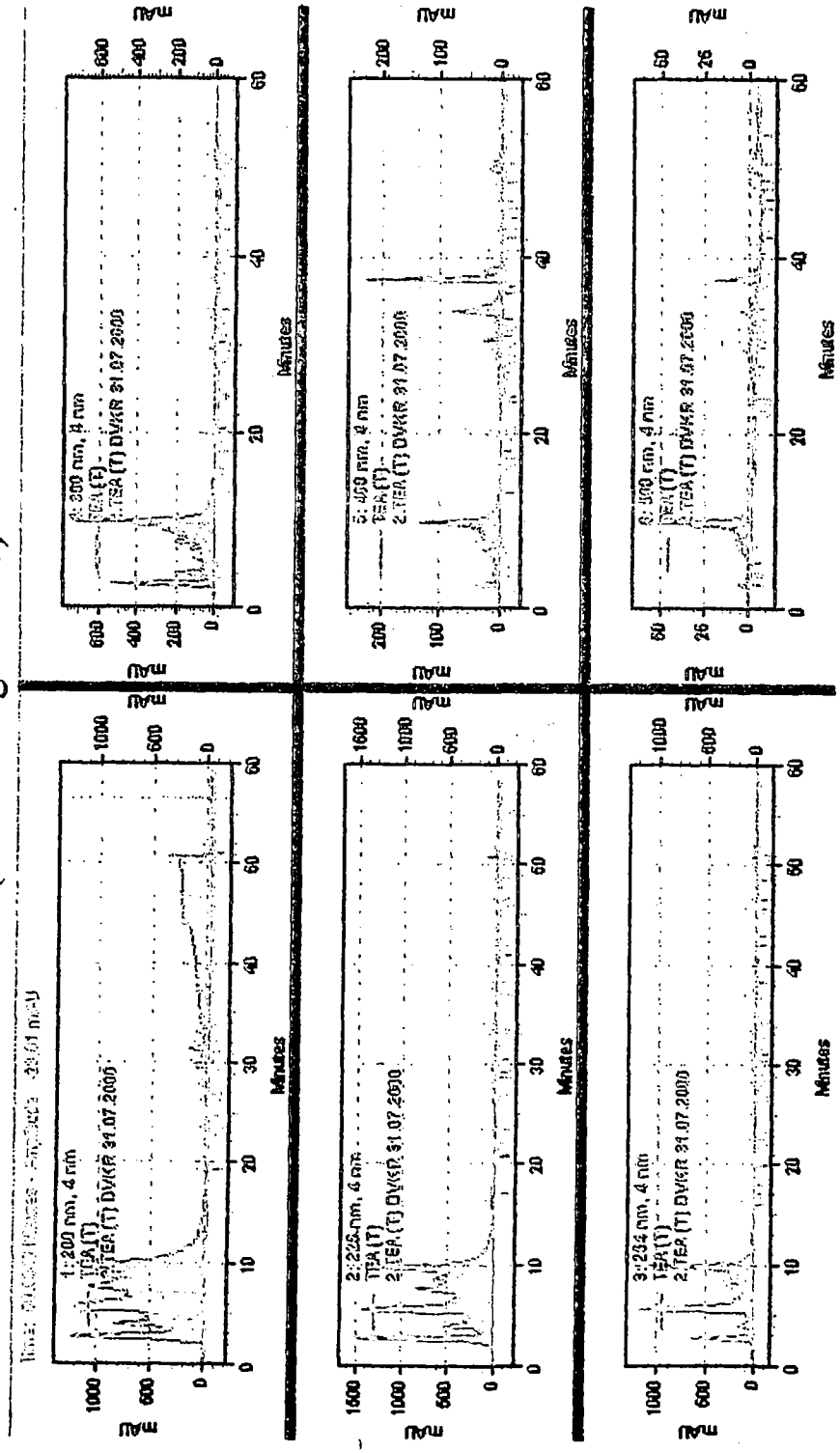


Figure 12

CHROMATOGRAMS OF A HERBAL FORMULATION TRIKTU (A FORMULATION OF PIPPALI,MARICHA AND SHUNTI) AT DIFFERENT WAVELENGTHS

(The existing method)

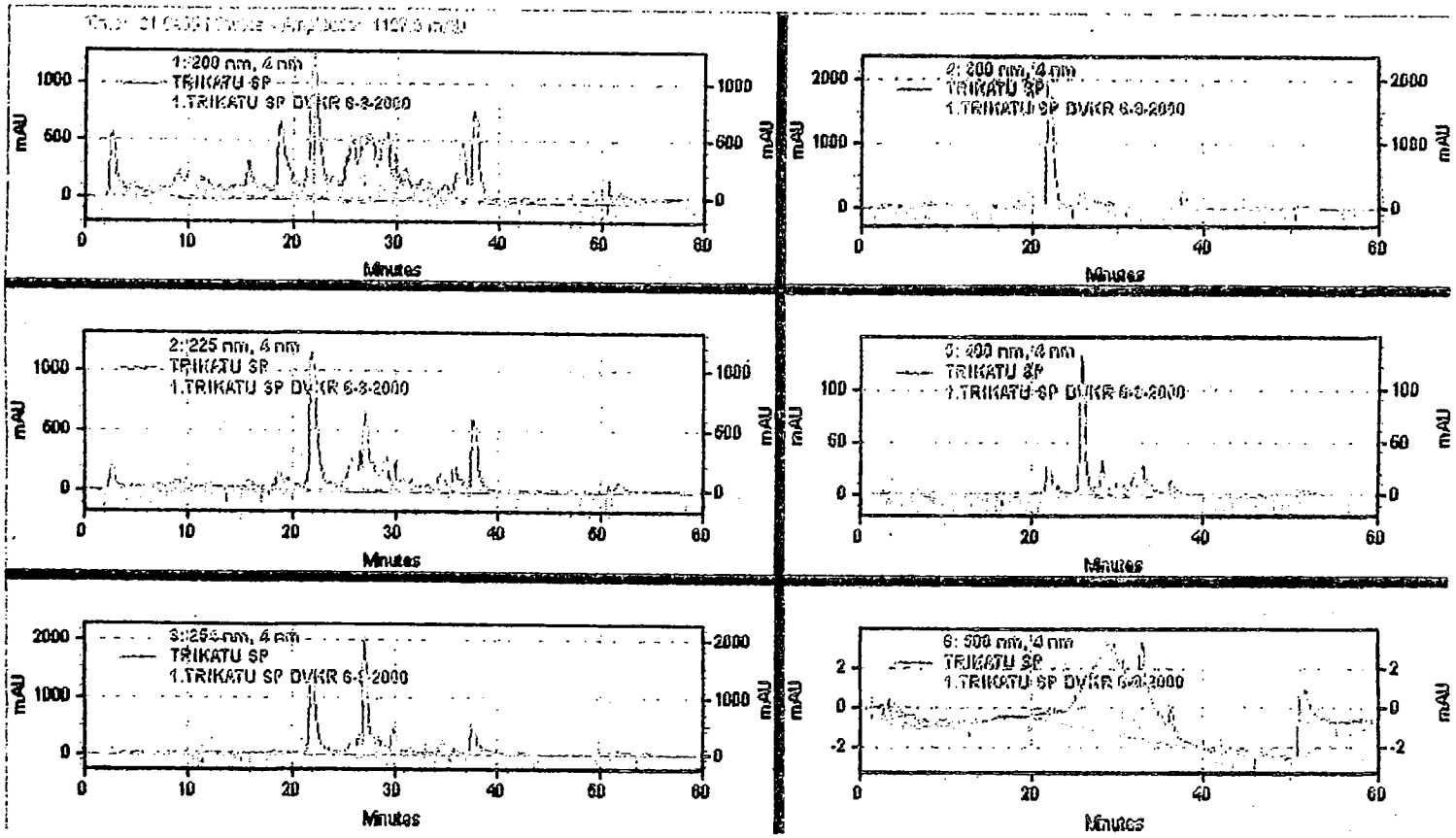
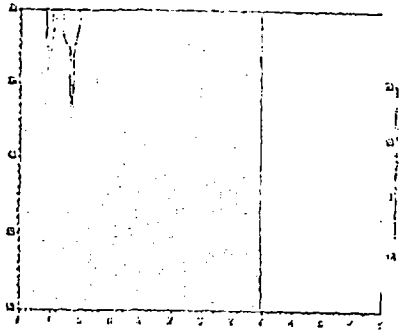
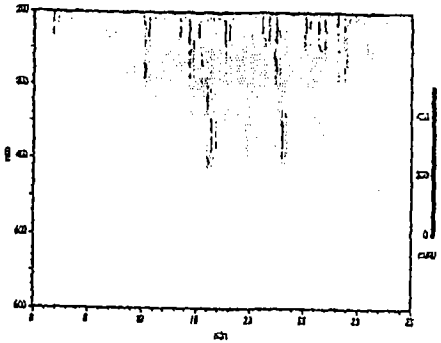


Figure 13

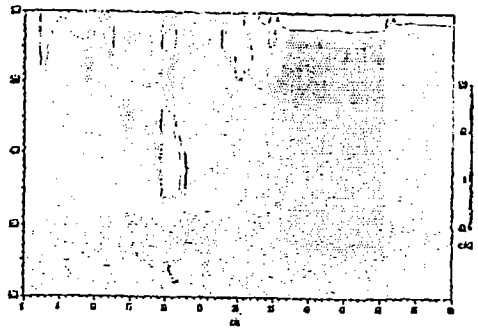
THE YELLOW MEDICINES



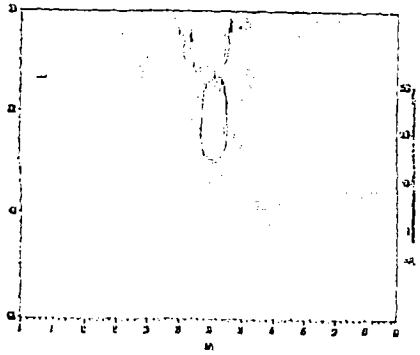
COSCINIUM FENESTRATUM



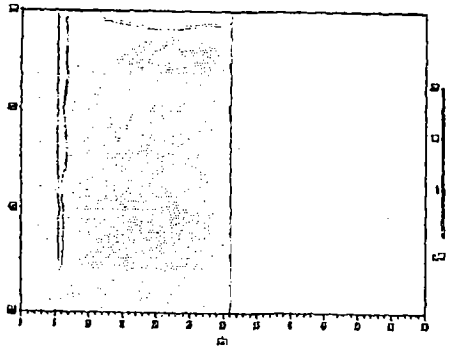
ZINZIBER OFFICINALE (PROCESSED)



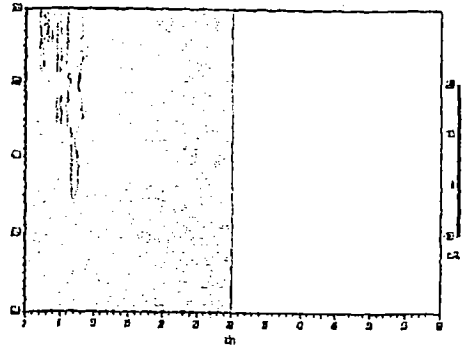
CURCUMA LONGA



CUMMIPHORA MUKUL



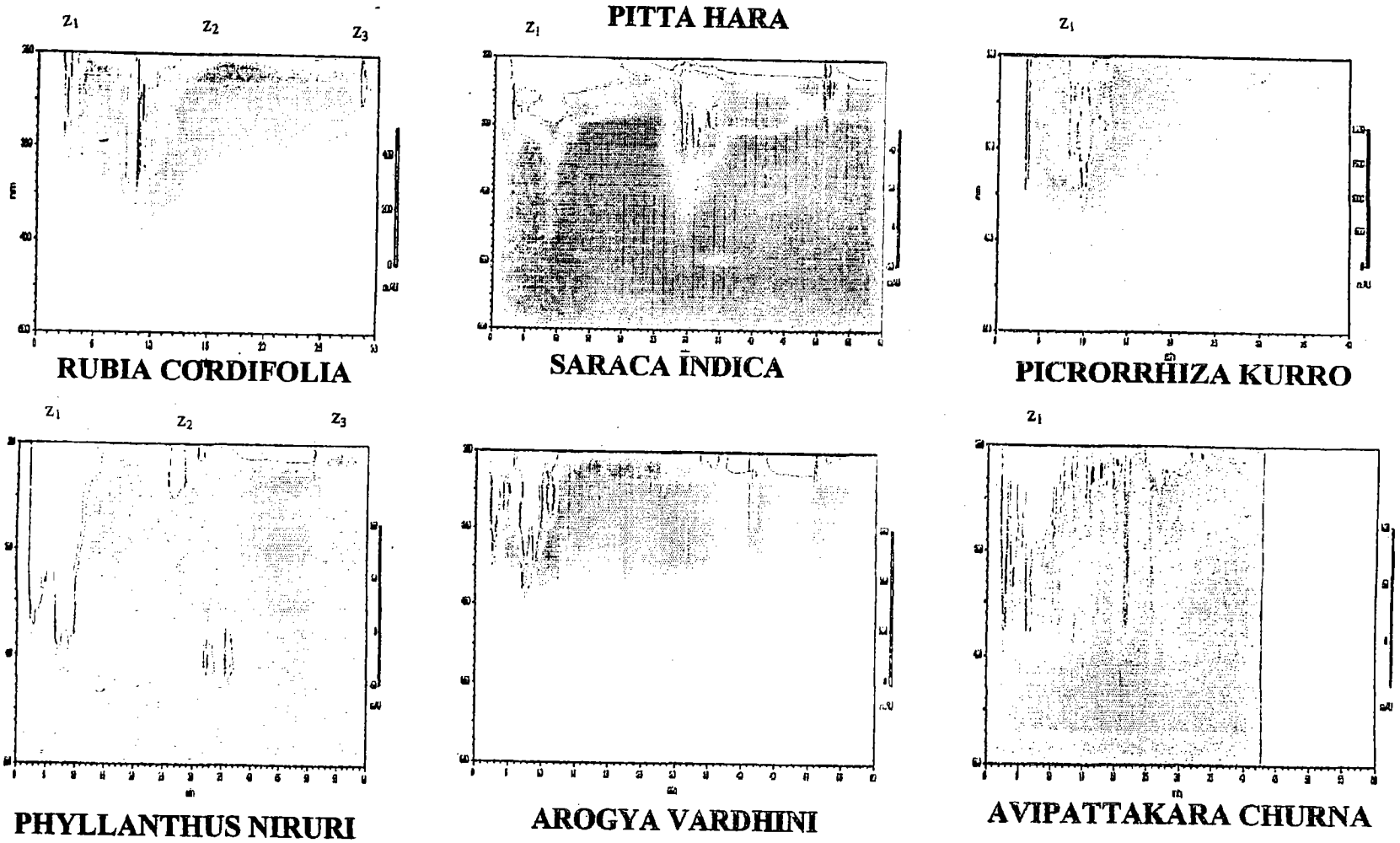
BERBERIN (FLUKA STANDARD)



BERBERIS ARISTATA

THE FINGERPRINTS OF CONTRAVERSIAL DRUGS (SANDIGDHA DRAVYAS) SHOWS A CLEAR DIFFERENCE IN APPEARANCE MAKING THE IDENTIFICATION MORE EASY.

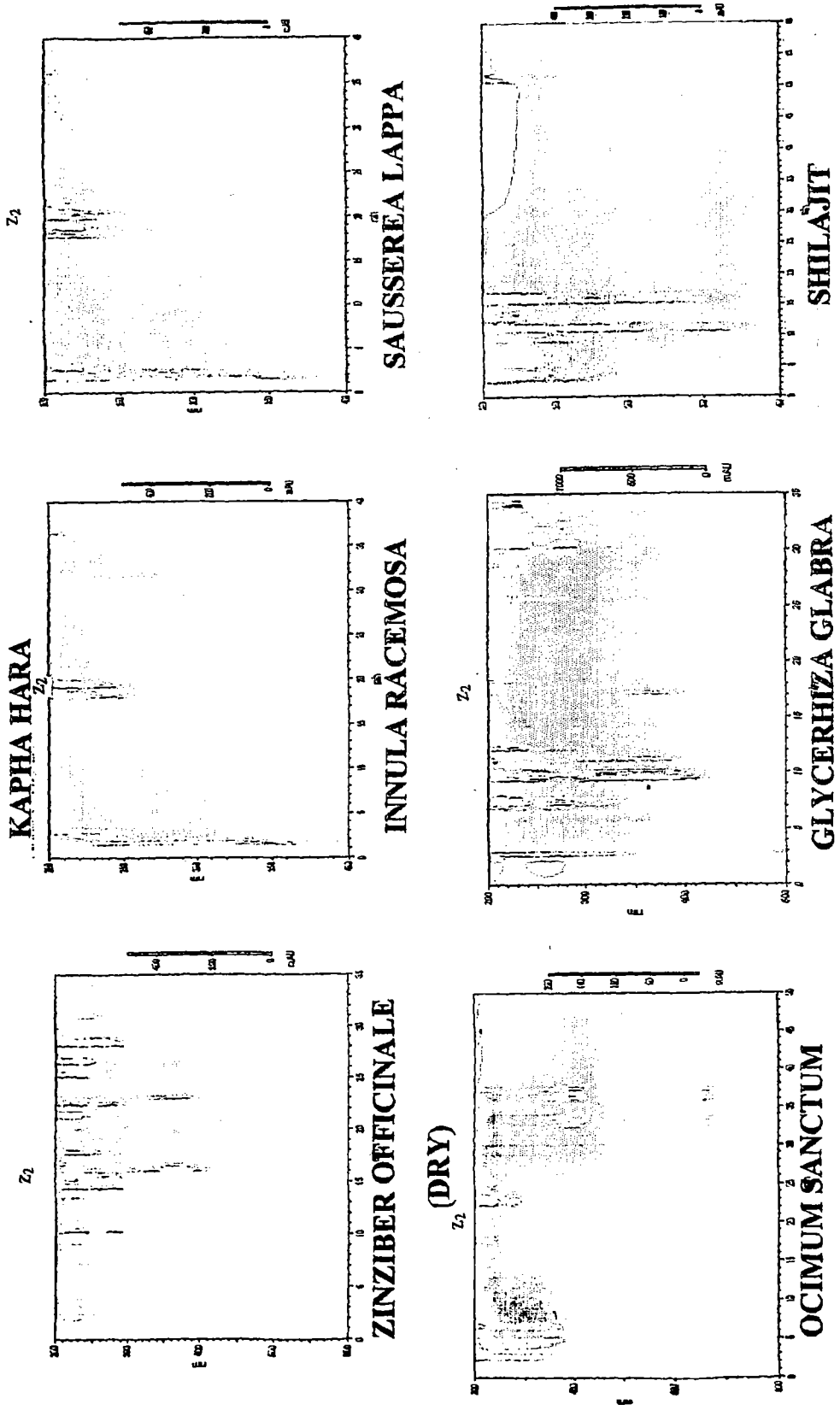
Figure 14



THE PRESENCE OF CONSTITUENTS IN ZONE-1

INDICATES THE SAID EFFICACY OF THE MEDICINES

Figure 15

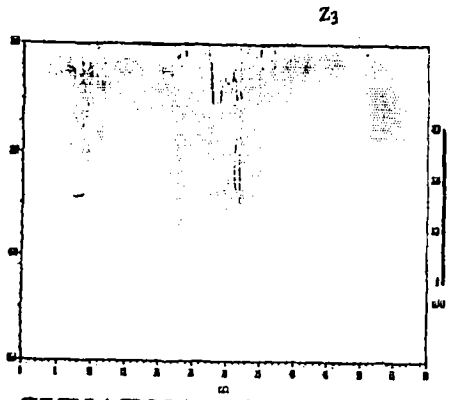


THE PRESENCE OF CONSTITUENTS IN ZONE-2

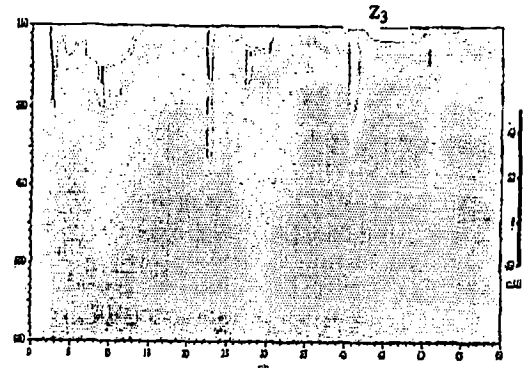
INDICATES THE SAID EFFICACY OF THE MEDICINES

Figure 16

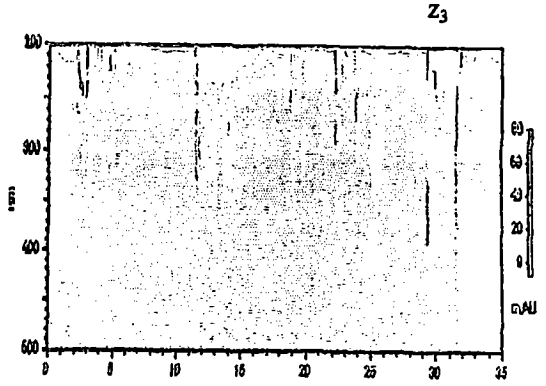
VATA HARA



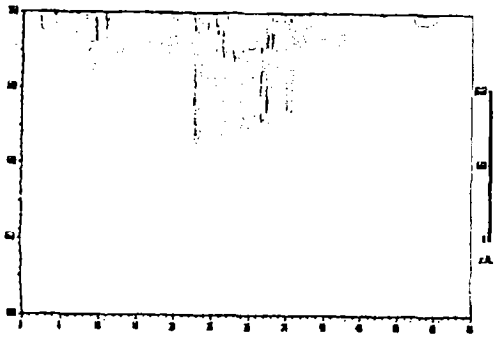
SUVARNA YOGARAJA GUGGULU



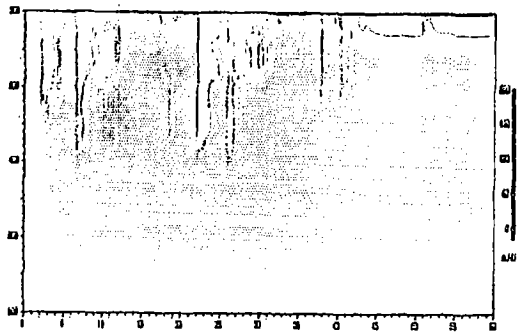
BRIHATVATACHINTAMANI AND SWARNAMAKSHAKAM



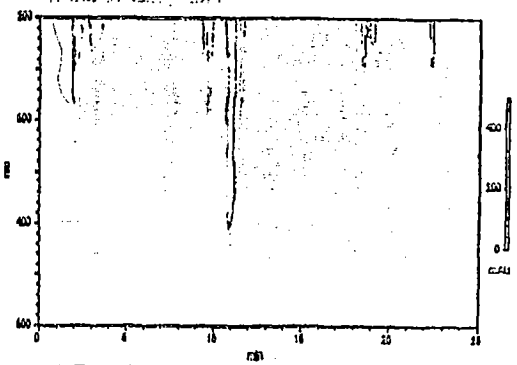
RICINUS COMMUNIS



MAHA YOGARAJA GUGGULU



HUTHASANA



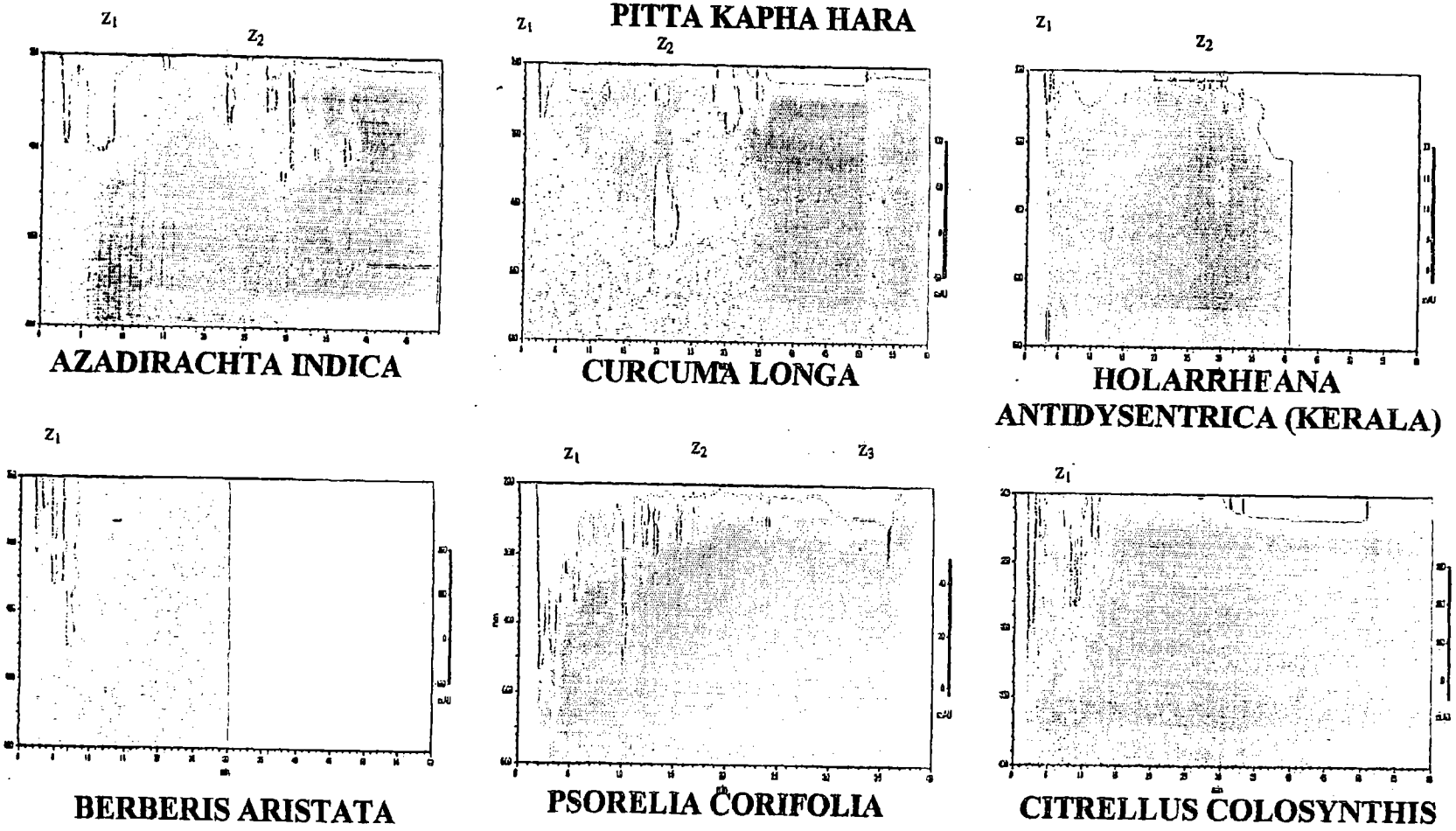
ALPINIA OFFICINARUM

THE PRESENCE OF CONSTITUENTS IN ZONE-3

INDICATES THE SAID EFFICACY OF THE MEDICINES

Figure 17

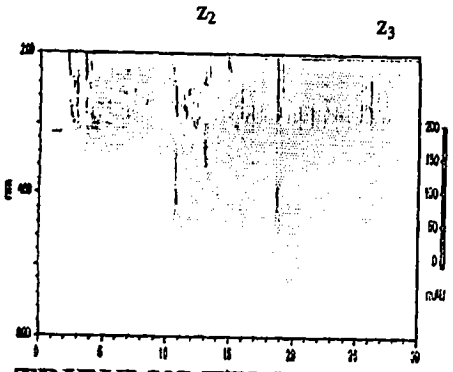
PITTA KAPHA HARA



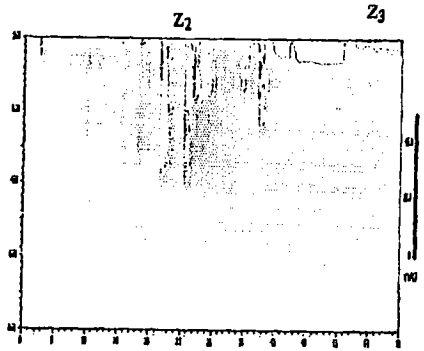
THE PRESENCE OF CONSTITUENTS IN ZONE-1 AND ZONE-2 INDICATES THE SAID EFFICACY OF THE MEDICINES

Figure 18

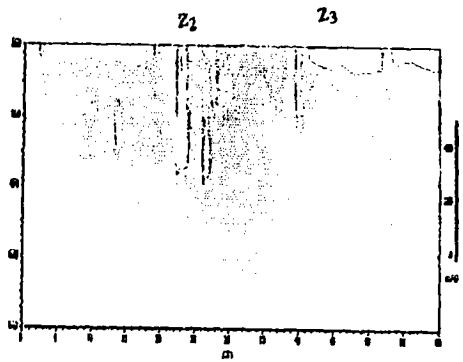
KAPHA VATA HARA



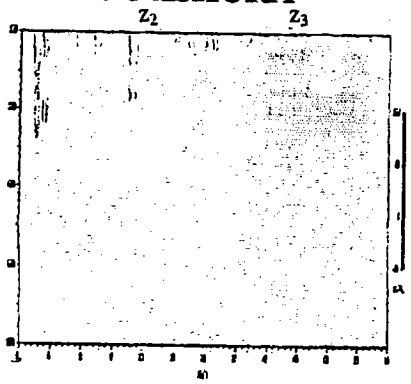
TRIBULUS TERRESTRIS
GOKSHURA



TRIKATU SP

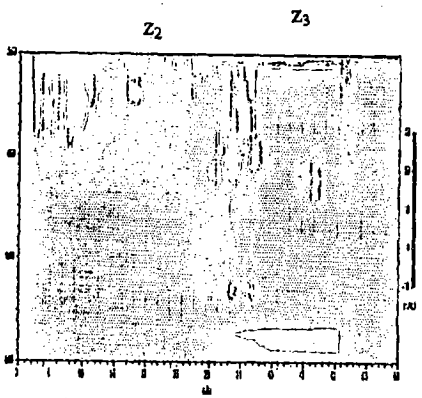


TRIKATU GH

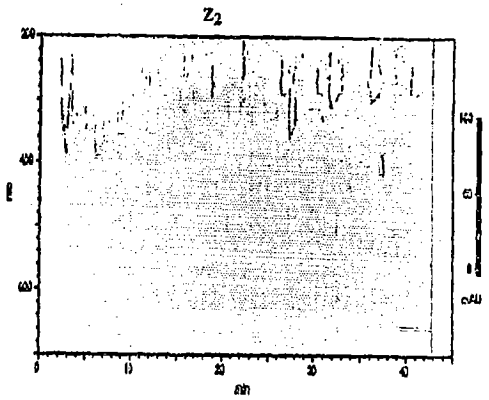


PIPER BEETLE

LEAVES FROM COASTAL
ANDHRA PRADESH



PIPER BEETLE LEAVES
FROM CULCUTTA



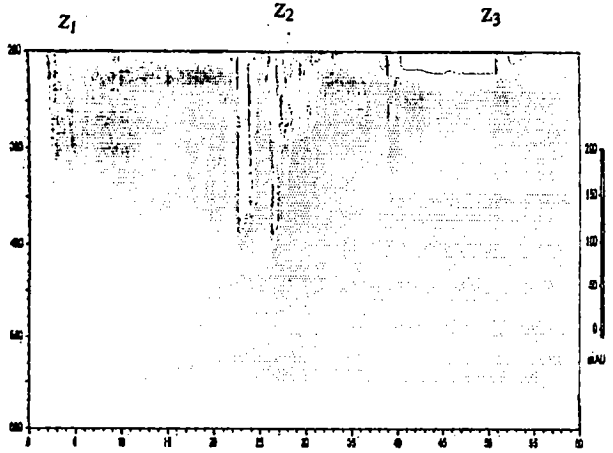
MORINGA OLIFERA

THE PRESENCE OF CONSTITUENTS IN ZONE-2 AND ZONE-3

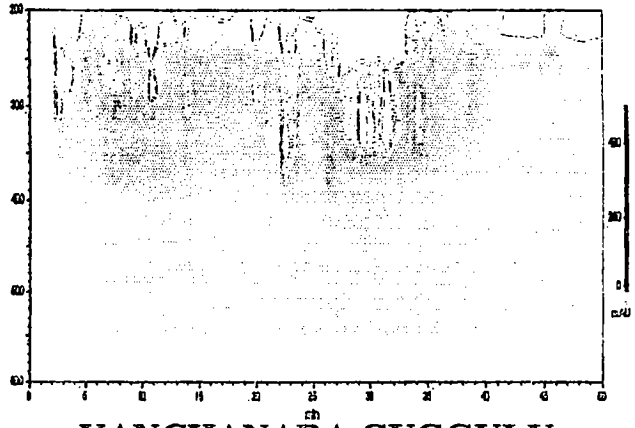
INDICATES THE SAID EFFICACY OF THE MEDICINES

Figure 19

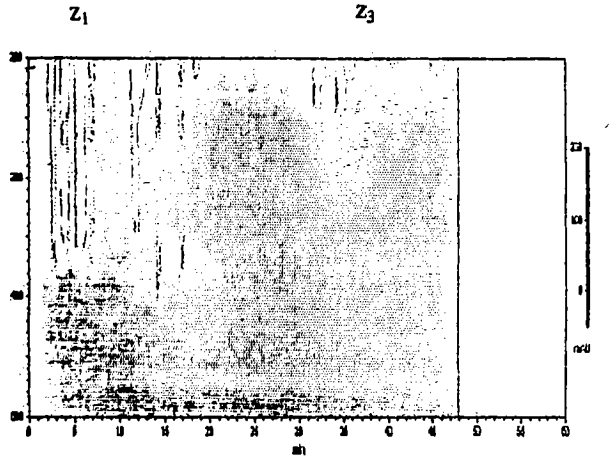
PITTA VATA HARA



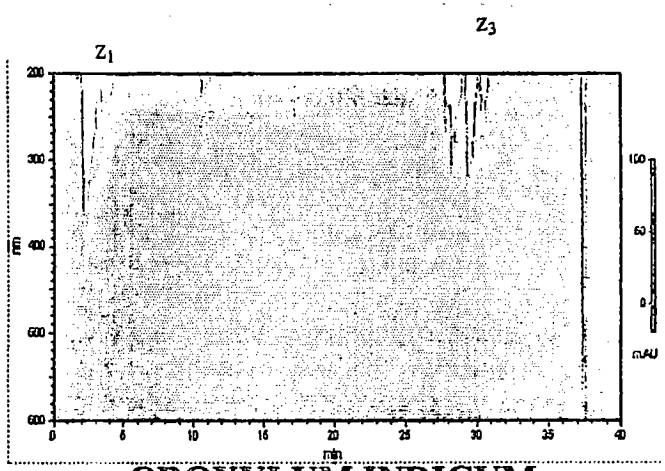
ANANDA BHAIRAVI



KANCHANARA GUGGULU



BACOPA MONNERI



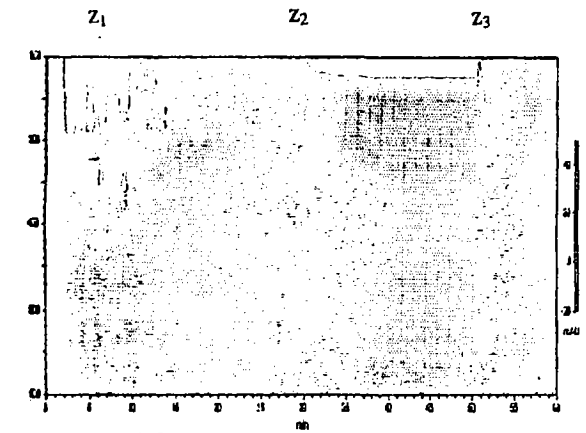
OROXYLUM INDICUM

THE PRESENCE OF CONSTITUENTS IN ZONE-1 AND ZONE-3

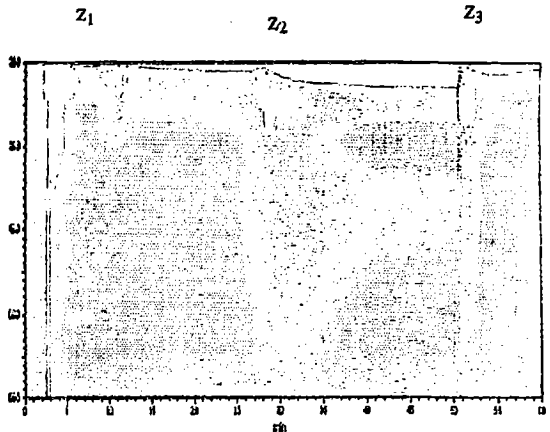
INDICATES THE SAID EFFICACY OF THE MEDICINES

Figure 20

TRI DOSHA HARA

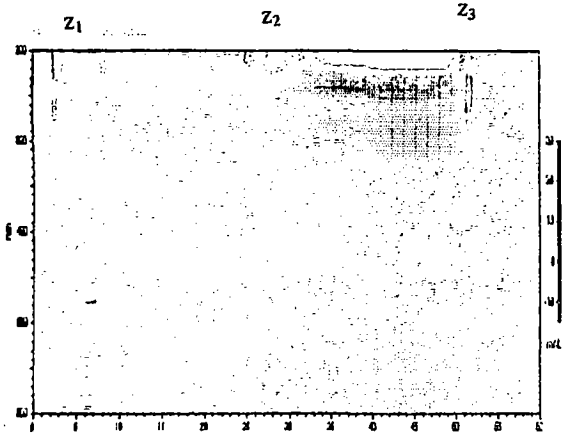


ALLIUM CEPA (BIG)

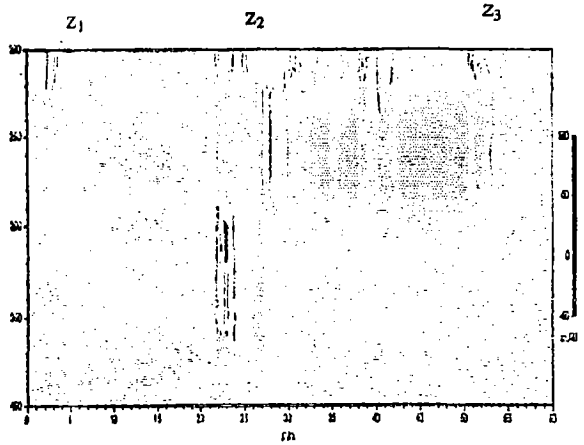


WITHANIA PUBISCENCE

RED SEEDS



EMBLICA OFFICINALIS



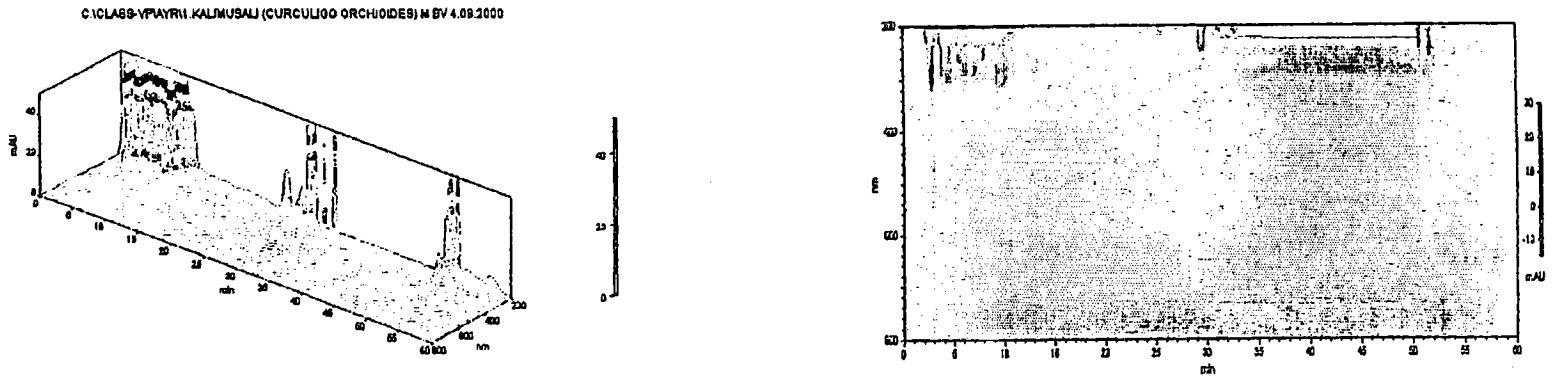
MAHALAKSHMI VILAS RAS

THE PRESENCE OF CONSTITUENTS IN ALL THREE ZONES

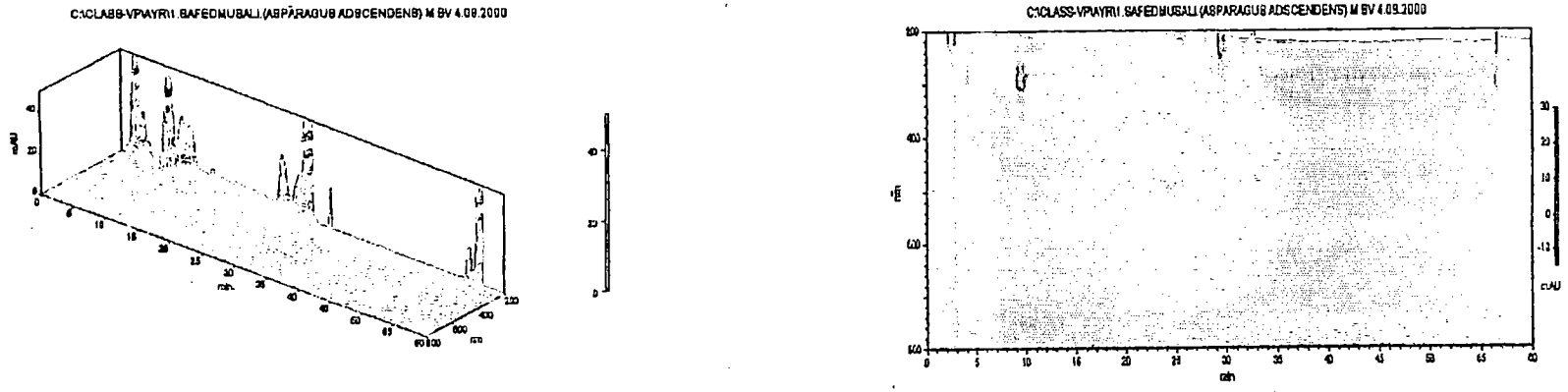
INDICATES THE SAID EFFICACY OF THE MEDICINES

Figure 21

Figure: MUSALI - A TRIDOSHA HARA MEDICINE



FINGER PRINTS OF CURCULIGO ORCHIOIDIS (KALIMUSALI)



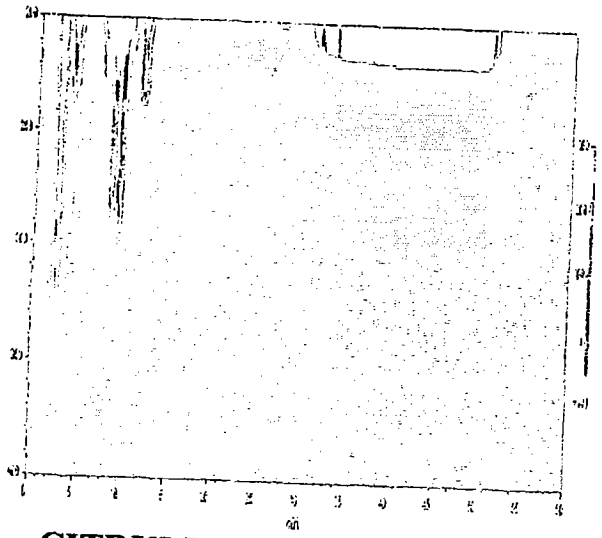
FINGER PRINTS OF ASPARAGUS ADESCENDENS (SAFED MUSALI)

Figure 22

CITRULLUS COLOSYNTHIS

(HOMOEO MEDICINE)

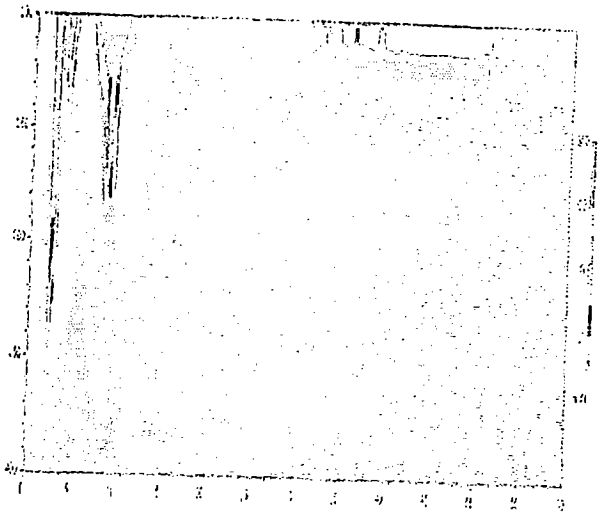
Very bitter peak of difference



CITRULLUS COLOSYNTHIS

GOOD BY EFFICACY

Light in bitterness absent



CITRULLUS COLOSYNTHIS

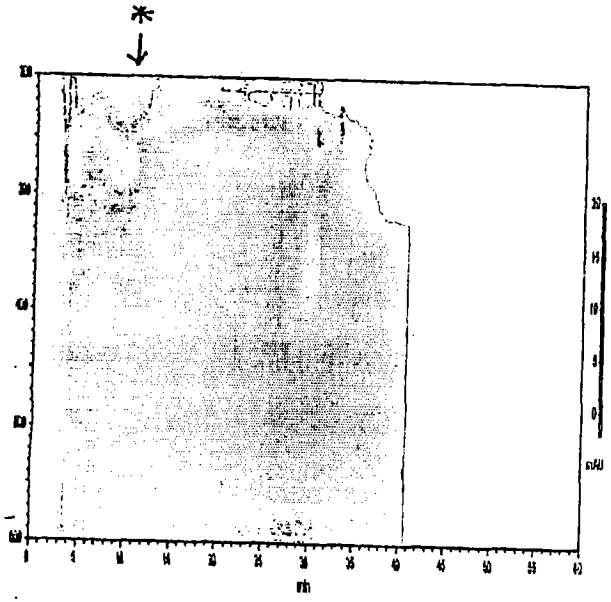
POOR BY EFFICACY

THE LACK OF SOME CONSTITUENTS IN THE FINGER PRINT SHOWS THE USE OF THIS METHOD FOR THE STANDARDIZATION OF EXTRACTION PROCESS OF HOMOEO MOTHER TINCTURES FROM PLANTS

This supports the claim of taste identification used for therapeutic standardization.

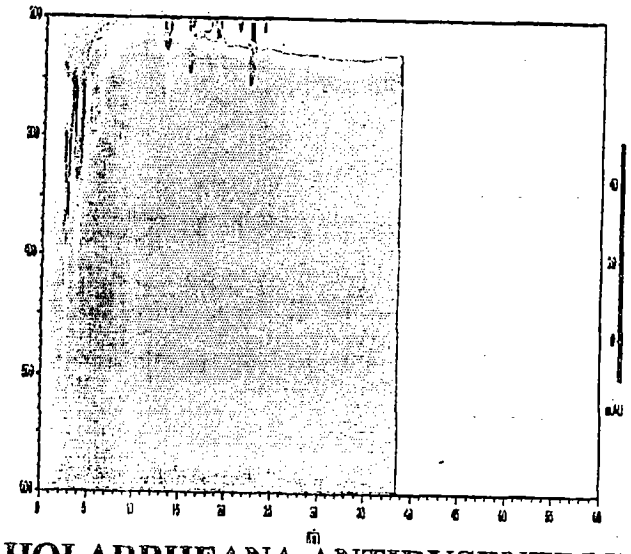
Figure 23

INFLUENCE OF ECOLOGICAL FACTORS



HOLARRHEANA ANTIDYSENTRICA

(KERALA)



HOLARRHEANA ANTIDYSENTRICA

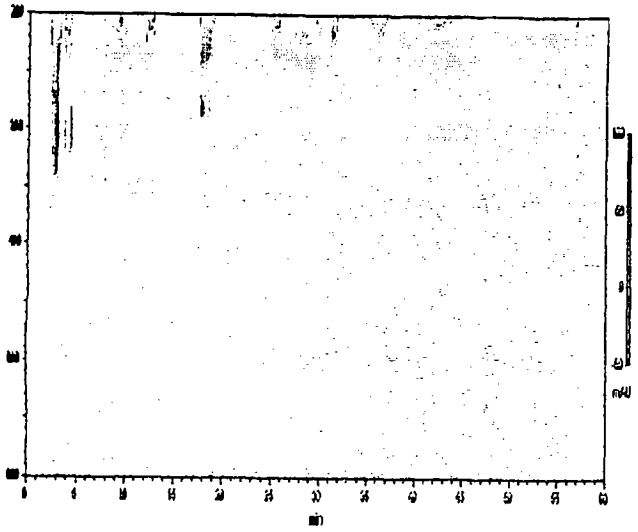
(ANDHRA PRADESH)

THE FINGER PRINTS SHOWS THE INFLUENCE OF ECOLOGICAL FACTORS ON THE CHEMICAL CONSTITUENTS OF THE PLANT MATERIAL OF DIFFERENT TROPICAL ZONES OF THE COUNTRY.

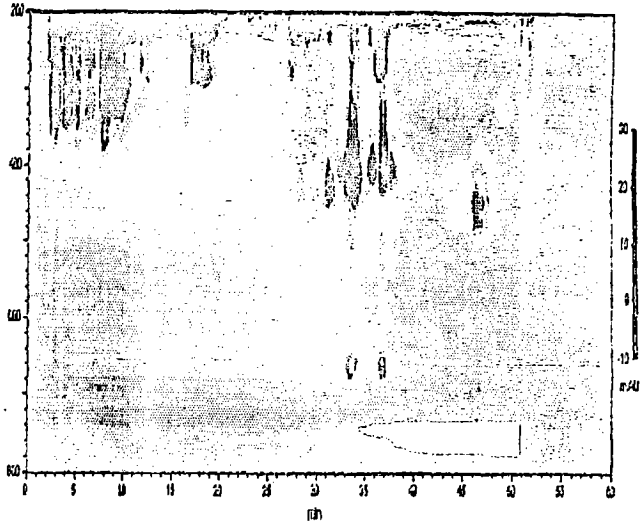
This constituent is basic in nature because the basic or alkaline amines elutes stretched or elongated . Acid compounds elute fast like a sharp peak.

Figure 24

PIPER BEETLE EXAMPLE



BEETLE LEAVES FROM COASTAL ANDHRA PRADESH



BEETLE LEAVES FROM CALCUTTA

Aurones and Chareones (flavonoids) are antioxidants. A combinatorial library of _____ can be seen.

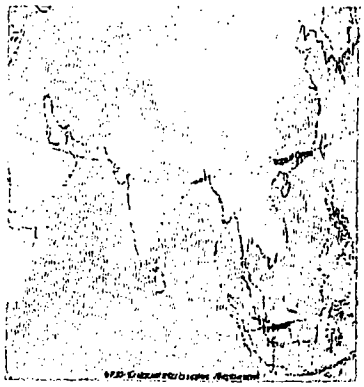
THE FLAVONOIDS PRESENT IN THE TIME RANGE OF 30 - 40 MIN SHOWS THE INFLUENCE OF GENOTYPIC, PHENOTYPIC VARIATIONS AND ECOLOGICAL FACTORS ON THE CHEMICAL CONSTITUENTS OF THE PLANT MATERIAL OF DIFFERENT TROPICAL ZONES OF THE COUNTRY

Figure 25

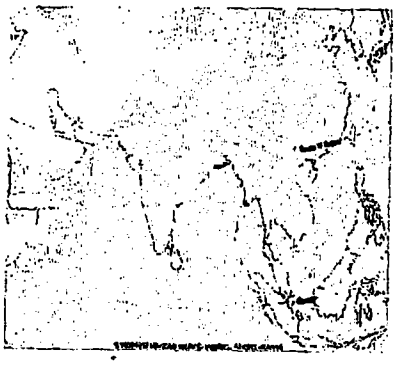
Figure : Indian Eco-regions



India-Eco-regions



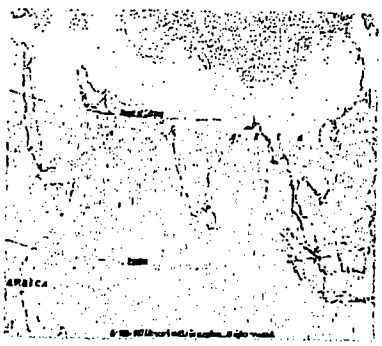
India-Precipitations-January



India-Precipitation-July



India-India precipitation -Annual



India-Temparature-January

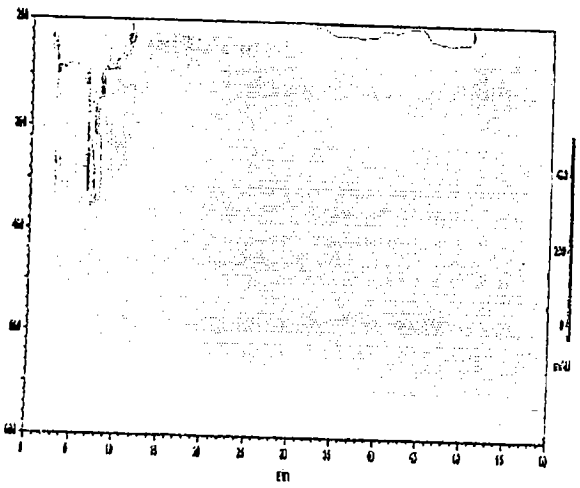


India-Climate map

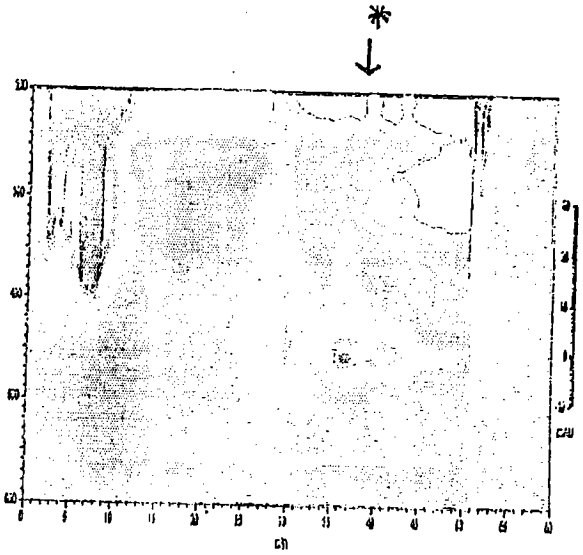
The above satellite images show that India has more than one tropical zone.The variations in the seasons will have an impact on the chemical constituents of the herbal medicines of different parts of the country.This applies for the entire world. This emphasizes the need of standardization of herbal medicines.

Figure 26

HERBAL HEAD BATH POWDERS



HERBAL HEAD BATH POWDER
PURE



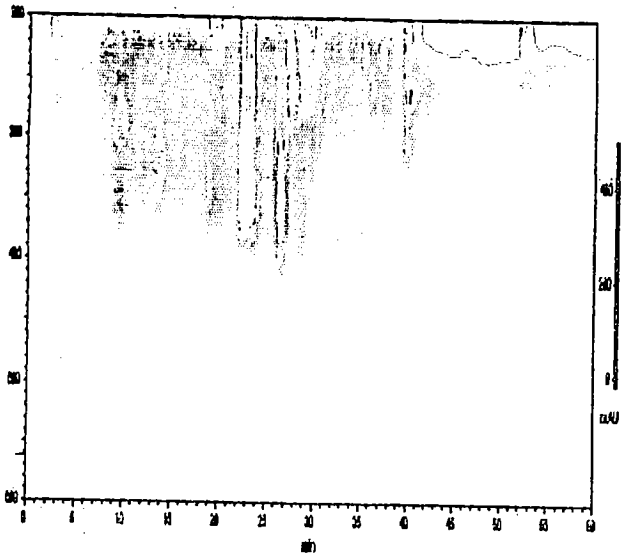
HERBAL HEAD BATH POWDER
ADULTRATED

THE ABOVE FINGER PRINTS SHOW THE ADULTERATION OF DETERGENTS IN THE SAID HERBAL COSMETIC PRODUCT. THUS FINGER PRINTING HELPS TO MONITOR THE ADULTERATIONS IN VARIOUS COMMERCIAL HERBAL PRODUCTS

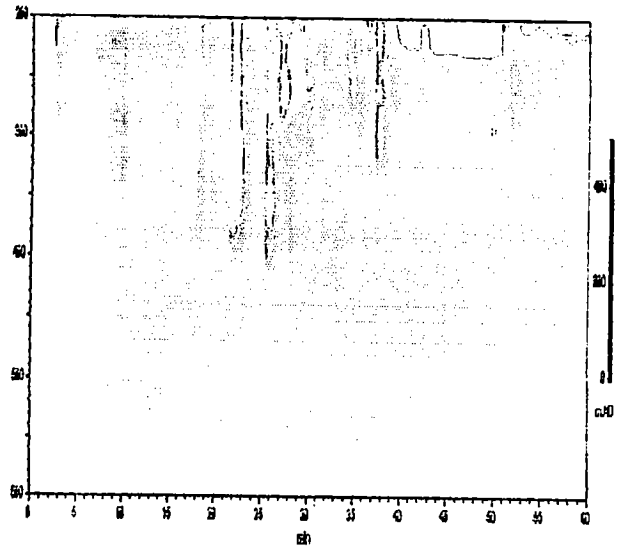
* → Constituents at 35-40 minutes are highly basic and soapy in nature . The pure detergent sample are eluting at the same time.

Figure 27

HERBAL FORMULATIONS OF DIFFERENT BRANDS



TRIKATU - BRAND 1

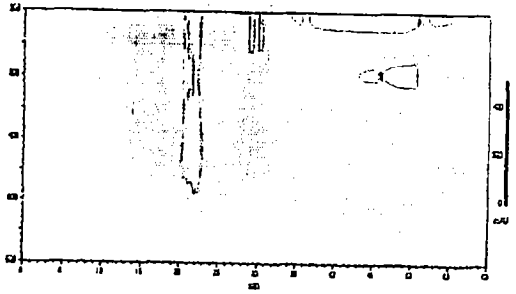


TRIKATU - BRAND 2

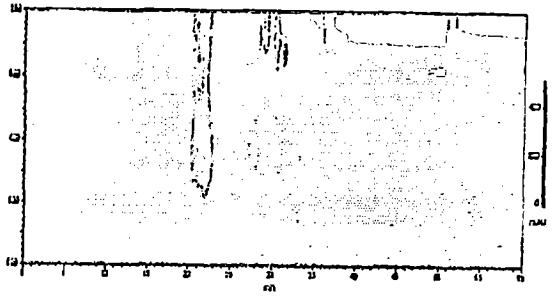
THE ABOVE EXAMPLE OF TRIKATU SHOWS DIFFERENCE IN THE ASSAY AND VARIATIONS IN THE CHEMICAL CONSTITUENTS. THE REASON MAY BE DUE TO THE VARIATIONS IN THE SINGLE MEDICINES USED TO PREPARE THE FORMULATIONS.

Figure 28

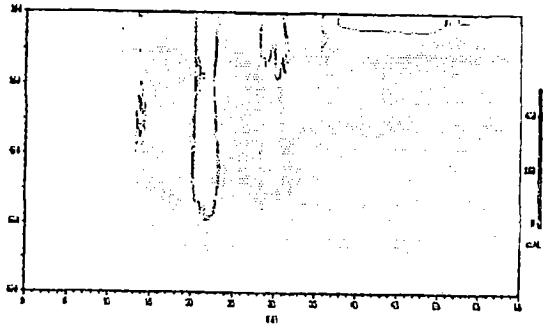
TURMERIC EXAMPLE



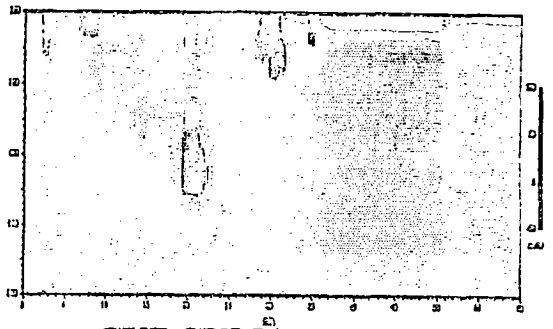
CURCUMA LONGA BRAND - 1



CURCUMA LONGA BRAND - 2



CURCUMA LONGA BRAND - 3

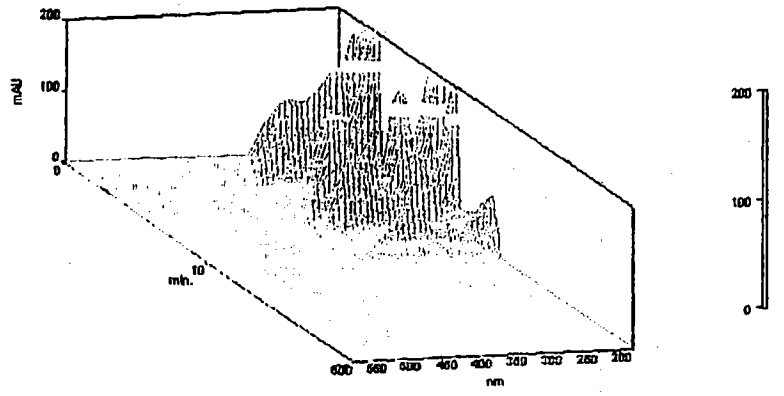


CURCUMA LONGA

(NATURAL RHIZOME)

THE FINGER PRINTS OF THE SAME HERBAL PRODUCT IN DIFFERENT FORMS HELPS IN THE QUALITY CONTROL OF THE NATURAL SUBSTANCES. THE COMMON PEAKS AT 20 MIN IN NATURAL AND COMMERCIAL PRODUCTS INDICATES THE PRESENCE OF THE YELLOW COLORED MOLECULES IN ALL.

Figure 29


mAU
200
100
0
min.
10
nm
600
560
520
480
440
400
360
320
280
240
200
200
100
0

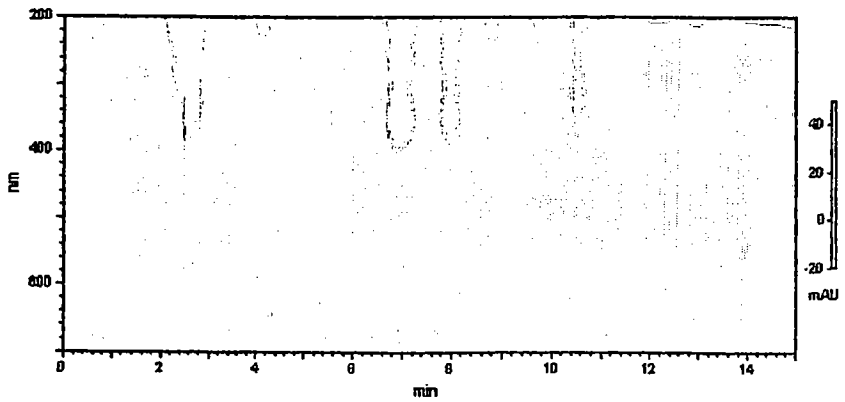
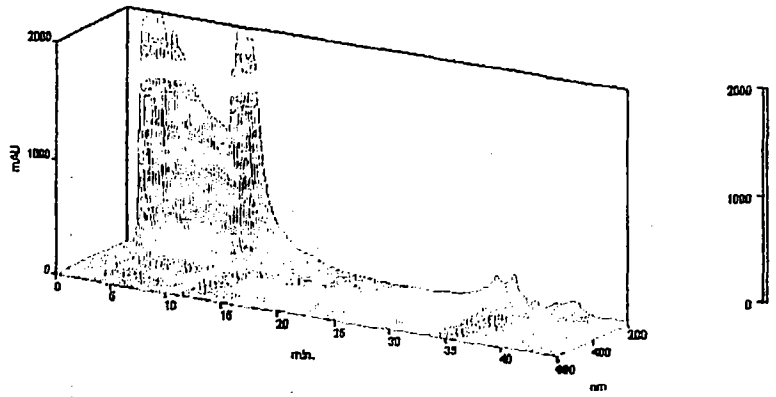

nm
200
400
600
0
2
4
6
8
10
12
14
min
40
20
0
-20
mAU

Figure 30


2000
1000
0
mAU
0
5
10
15
20
25
30
35
40
min.
200
300
400
nm

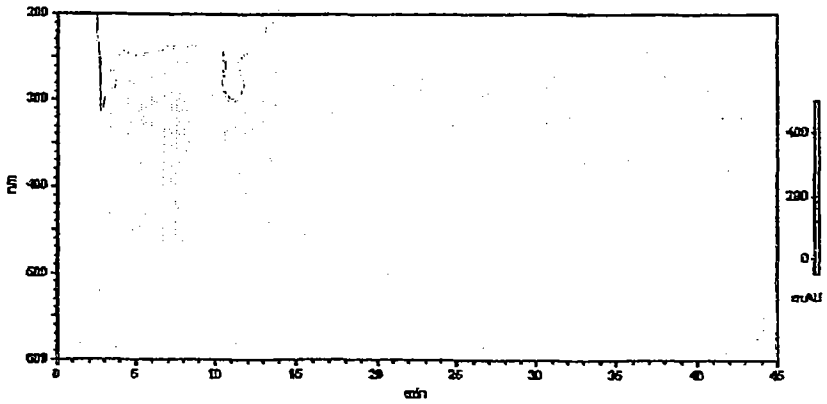
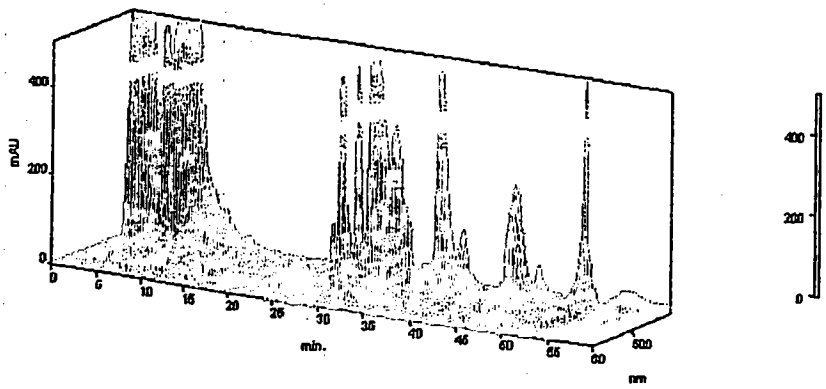

200
300
400
500
600
nm
0
5
10
15
20
25
30
35
40
45
min
400
200
0
mAU

Figure 31


mAU
400
200
0
0
5
10
15
20
25
30
35
40
45
50
55
60
min.
500
nm
400
200
0

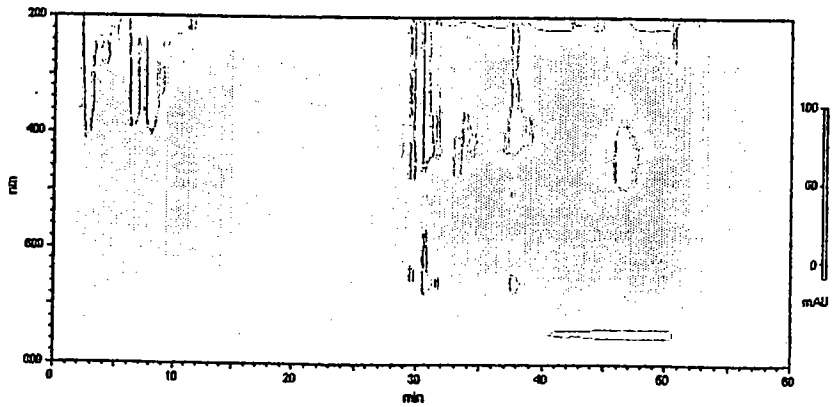
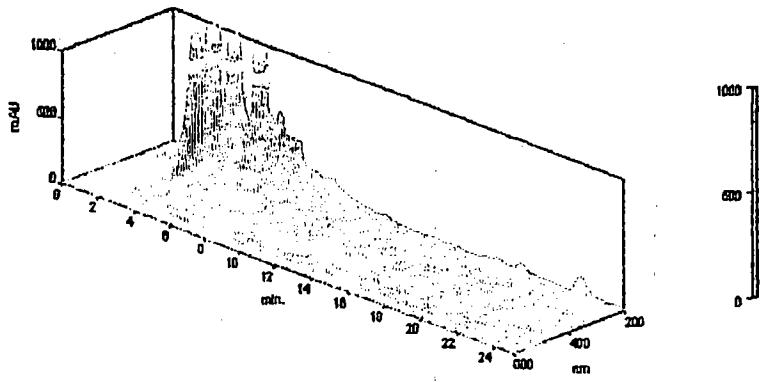

200
400
600
800
min
0
10
20
30
40
50
60
min
100
50
0
mAU

Figure 32


mAU
1000
600
0
min.
nm
200
400
600

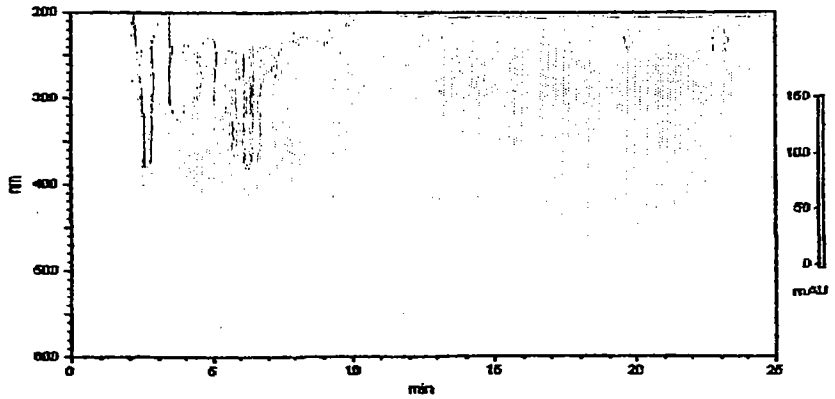
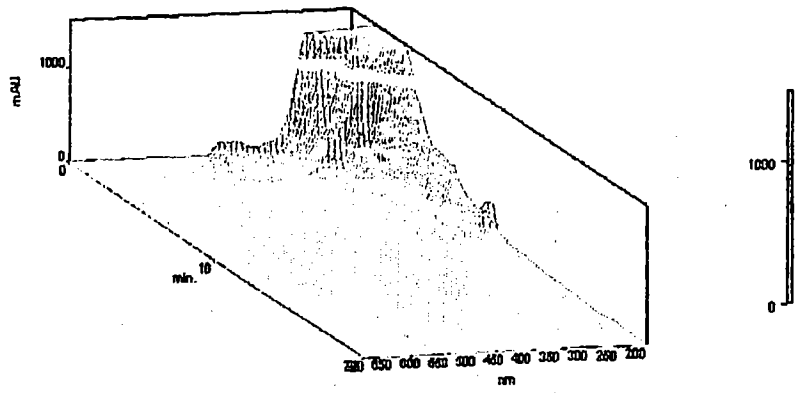

nm
200
300
400
500
600
min
0
5
10
15
20
25
150
100
50
mAU

Figure 33


mAU
1000
0
0
min.
10
nm
1000
0

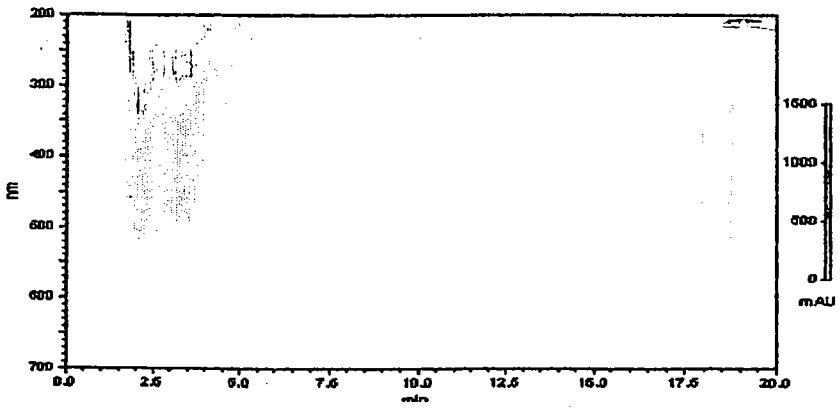
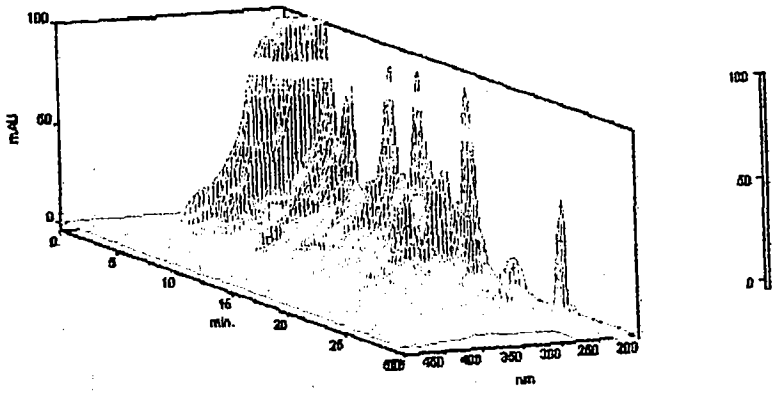

nm
200
300
400
500
600
700
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
20.0
min
1500
1000
500
0
mAU

Figure 34


100
50
0
mAU
0
5
10
15
min.
20
25
600
500
400
350
300
250
200
nm
100
50
0

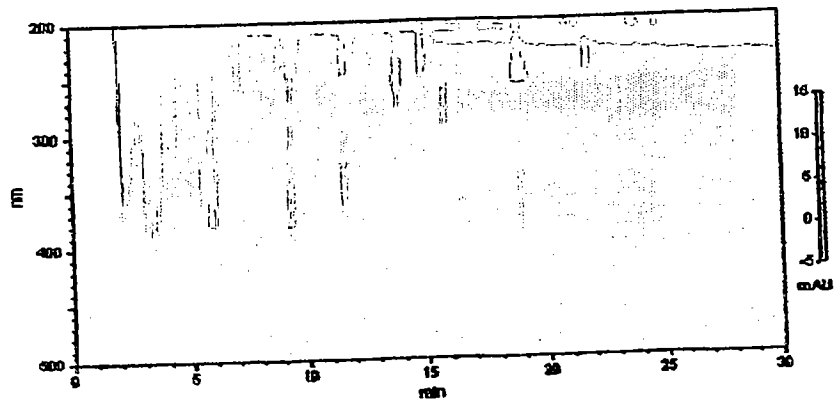
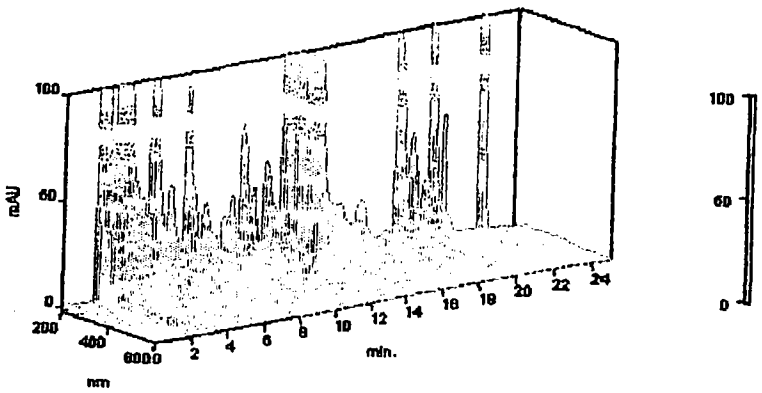

200
300
400
500
nm
0
5
10
15
20
25
30
min
16
10
5
0
-5
mAU

Figure 35


100
60
0
mAU
200
400
600
nm
2
4
6
8
10
12
14
16
18
20
22
24
min.
100
60
0

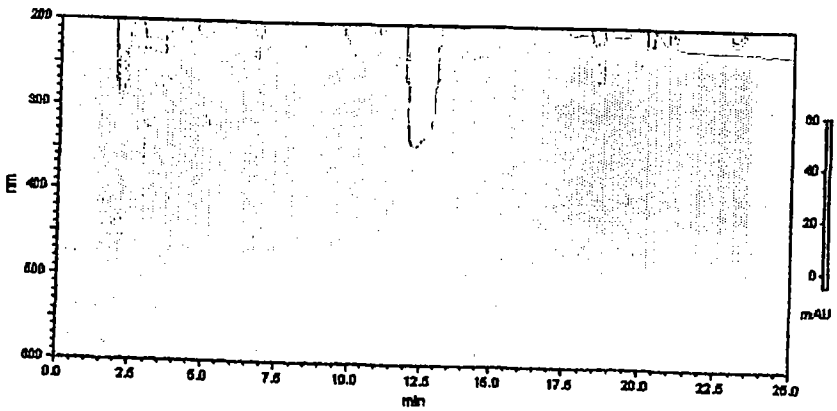
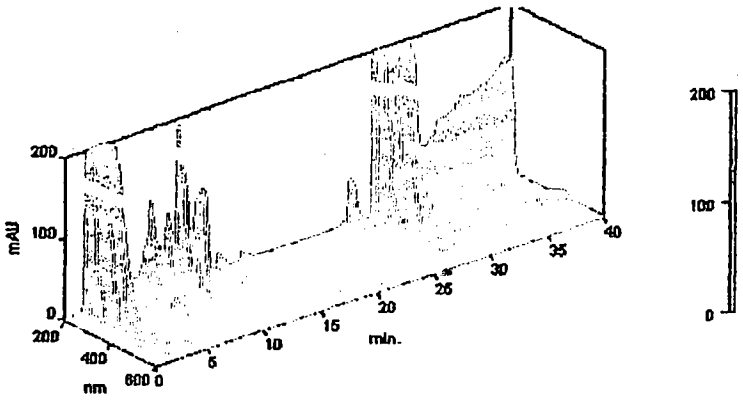

200
300
400
500
600
nm
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
20.0
22.5
25.0
min
80
40
20
0
mAU

Figure 36


mAU
200
100
0
200
400
600
nm
0
5
10
15
20
25
30
35
40
min.
200
100
0

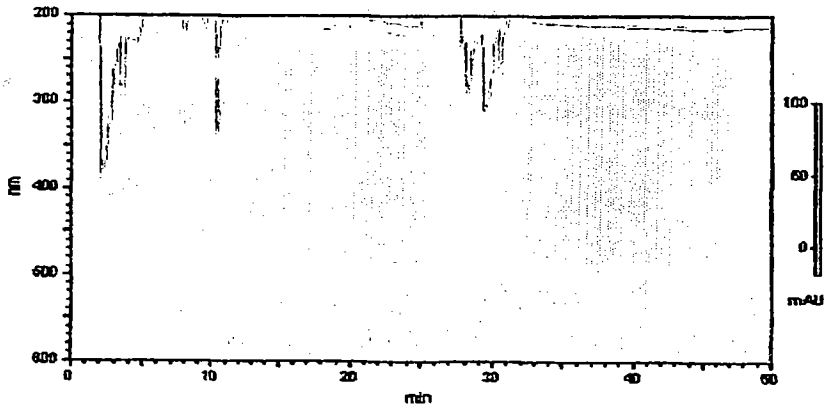
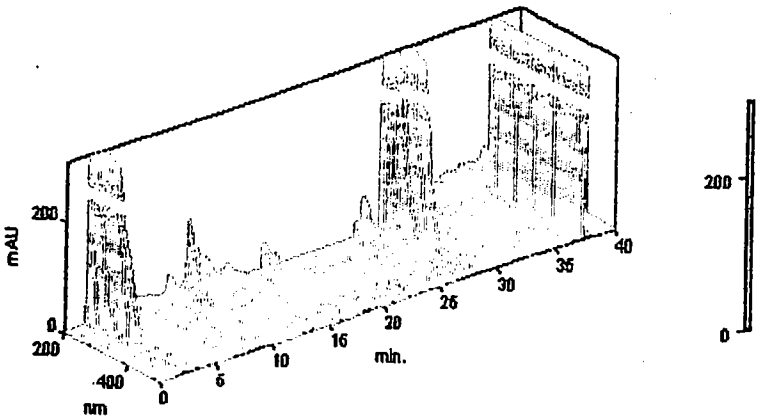

nm
200
300
400
500
600
0
10
20
30
40
50
min
100
50
0
mAU

Figure 37


mAU
200
0
200
-400
nm
0
5
10
15
20
25
30
35
40
min.
200
0

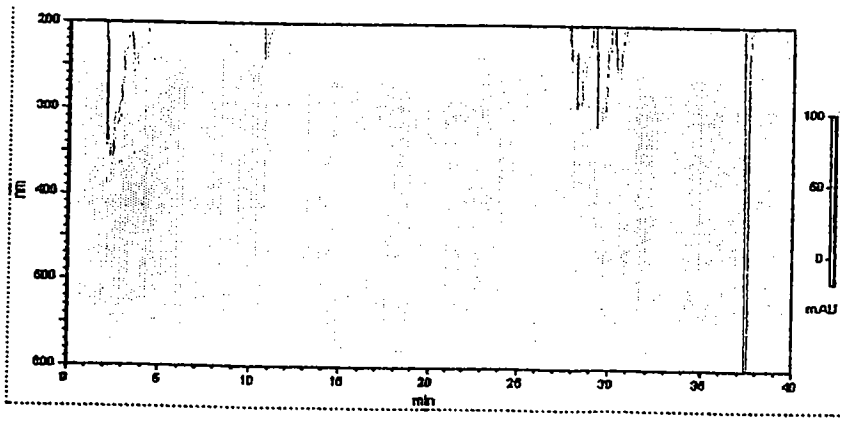
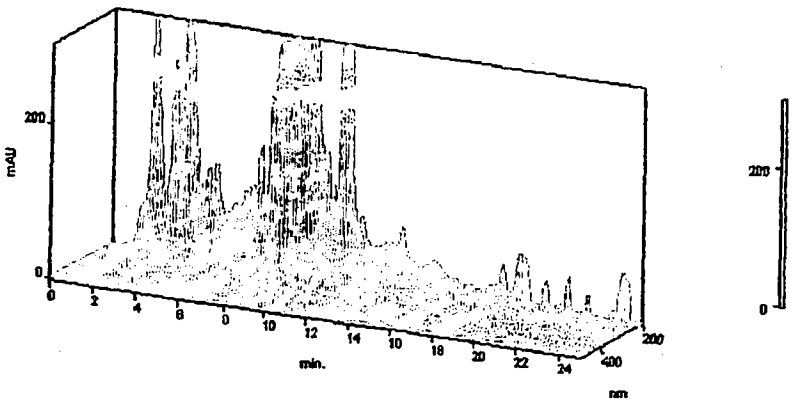

200
300
400
600
800
nm
0
5
10
15
20
25
30
35
40
min
100
50
0
mAU

Figure 38


mAU
200
0
0 2 4 6 8 10 12 14 16 18 20 22 24
min.
200
400
nm
200
0

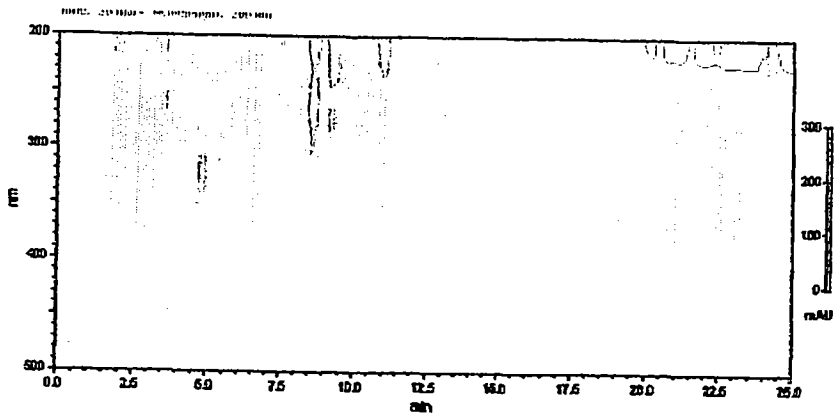
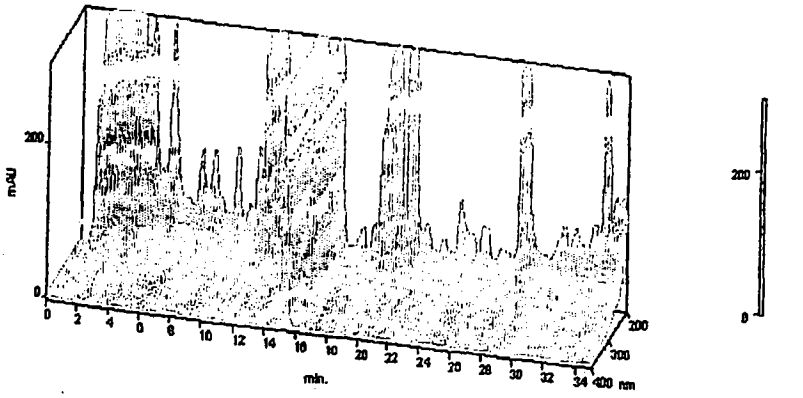

200
300
400
500
nm
0.0 2.5 5.0 7.5 10.0 12.5 15.0 17.5 20.0 22.5 25.0
min
300
200
100
0
mAU

Figure 39


mAU
200
0
0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34
min.
200
300
400 nm
200
0

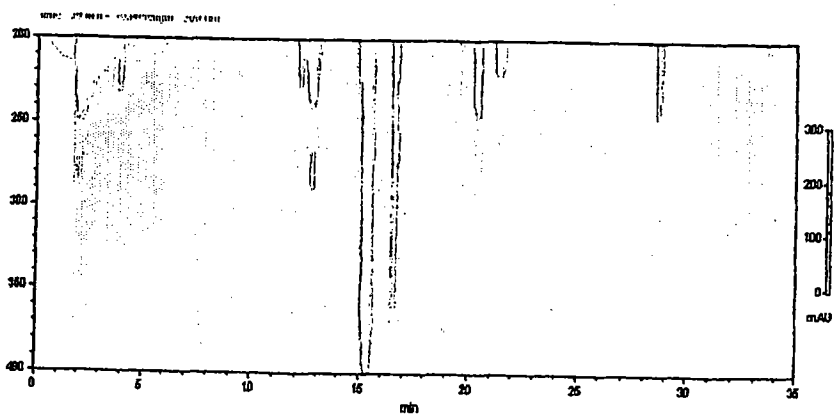
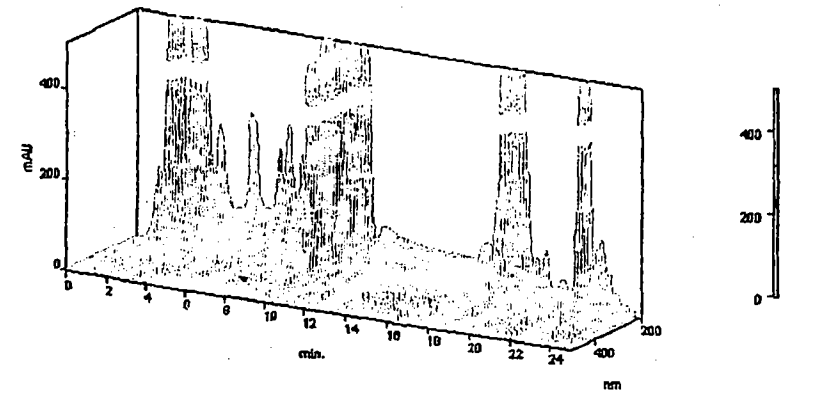

250
300
350
400
0 5 10 15 20 25 30 35
min
300
200
100
0
mAU

Figure 40


mAU
400
200
0
0
2
4
6
8
10
12
14
16
18
20
22
24
min.
200
400
nm
400
200
0

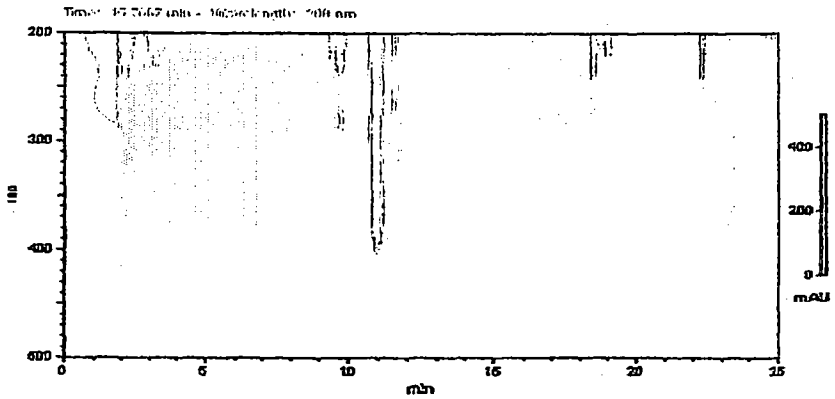
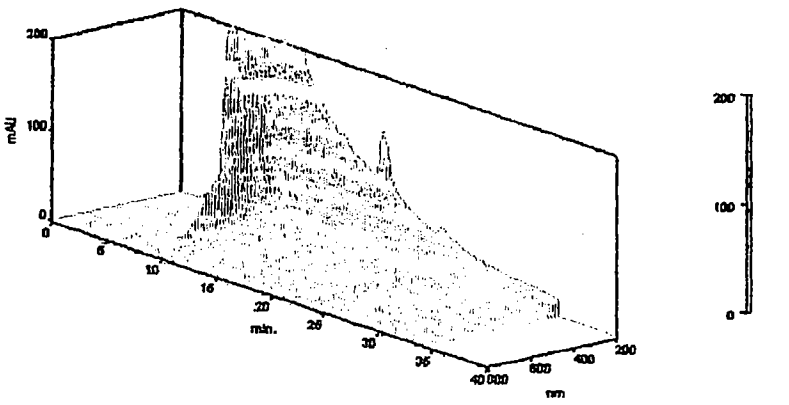

200
300
400
600
0
5
10
15
20
25
min
400
200
0
mAU

Figure 41


200
100
0
mAU
0
5
10
15
20
25
30
35
40 000
min.
600
400
200
nm
200
100
0

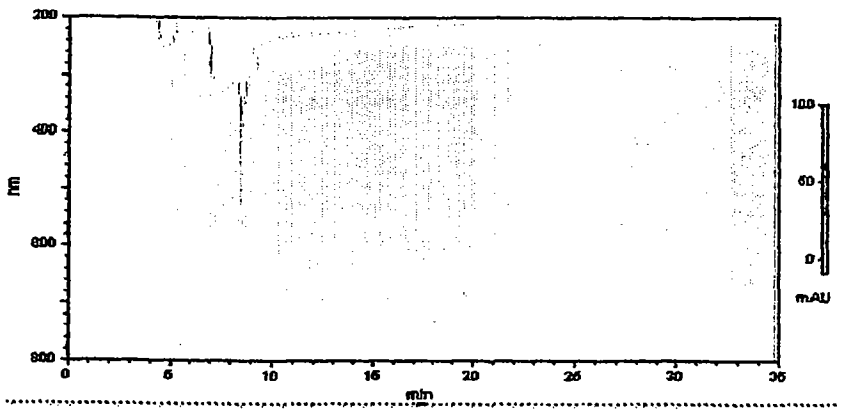
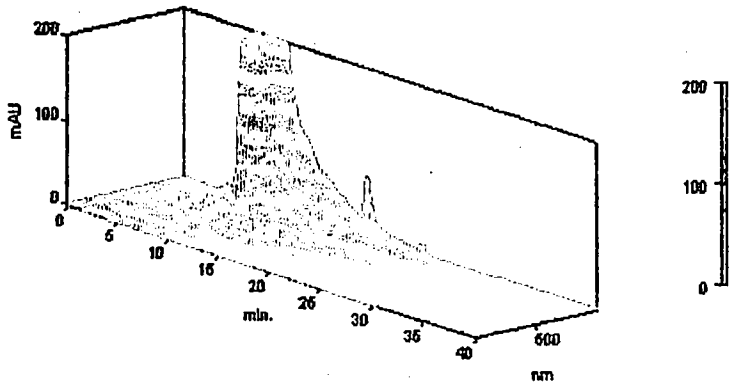

200
400
600
800
nm
0
5
10
15
20
25
30
35
min
100
50
0
mAU

Figure 42


200
100
0
mAU
0
5
10
15
20
25
30
35
40
min.
600
nm
200
100
0

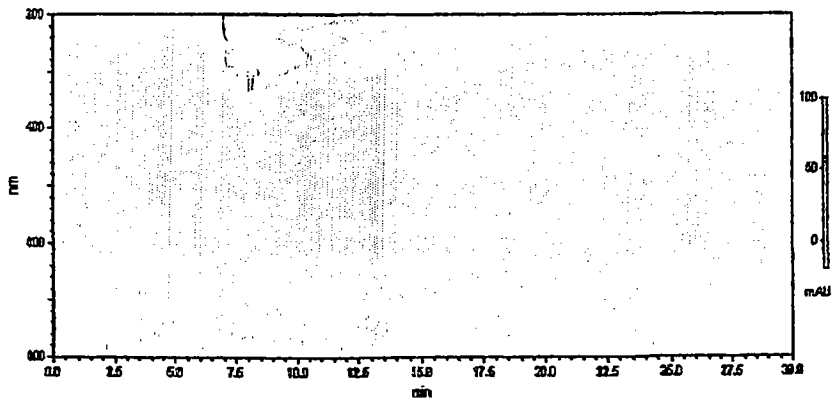
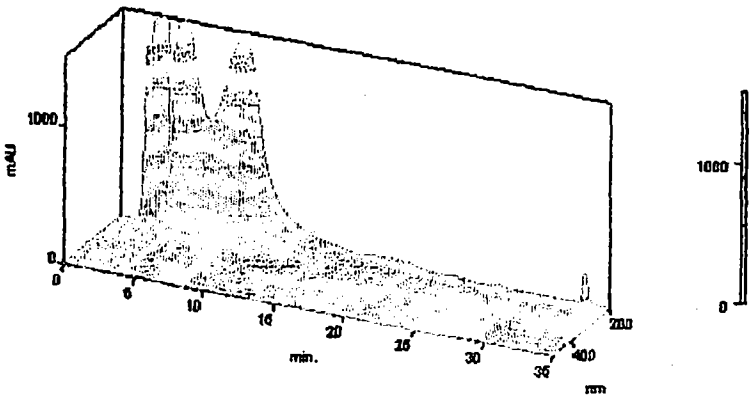

200
400
600
800
nm
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
20.0
22.5
25.0
27.5
30.0
min
100
50
0
mAU

Figure 43


mAU
1000
0
0
5
10
15
20
25
30
35
min.
200
400
nm
1000
0

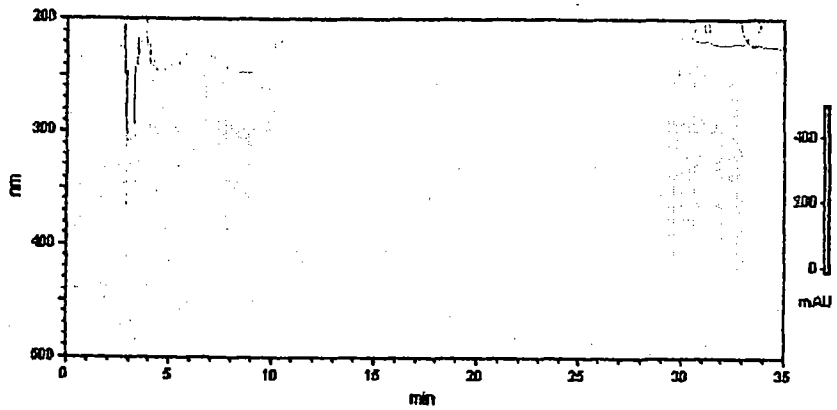
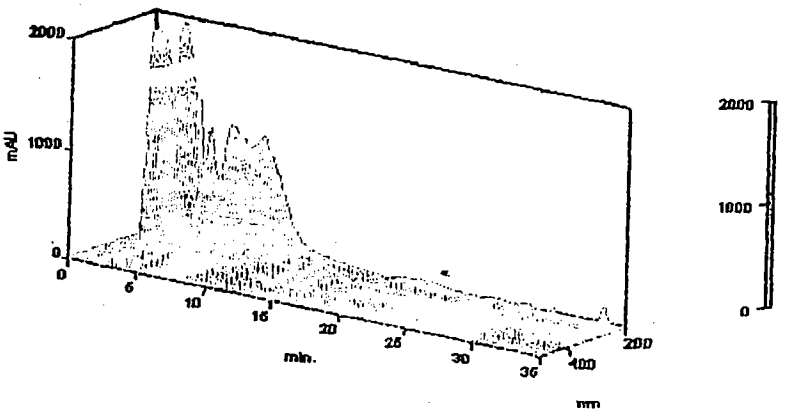

nm
200
300
400
500
0
5
10
15
20
25
30
35
min
400
200
0
mAU

Figure 44


2000
1000
0
mAU
0
5
10
15
20
25
30
35
40
min.
nm
2000
1000
0

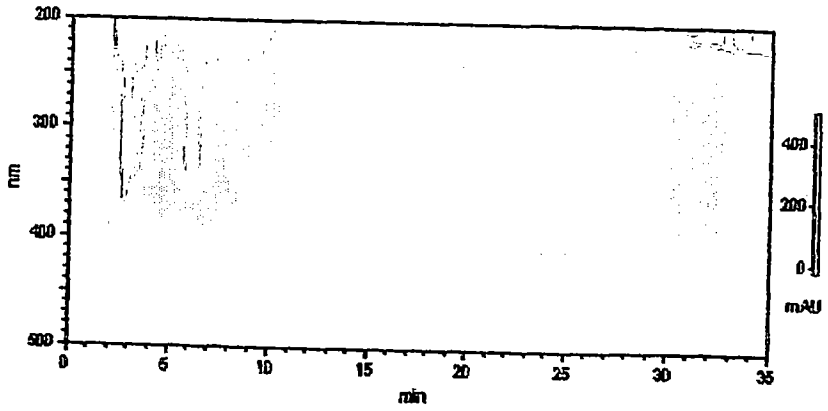
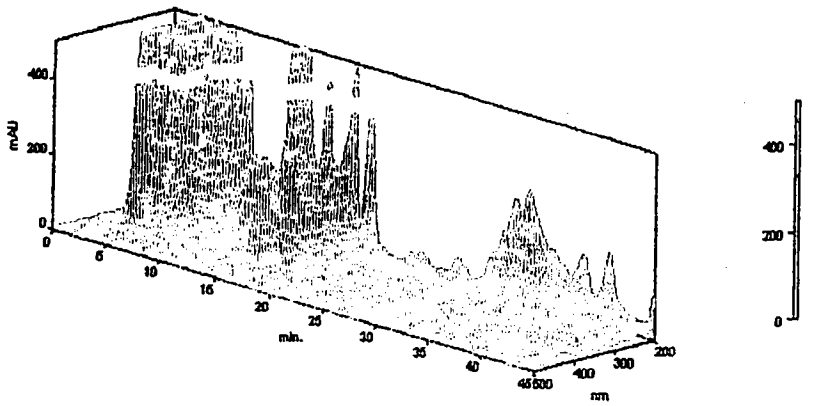

200
300
400
500
nm
0
5
10
15
20
25
30
35
min
400
200
0
mAU

Figure 45


mAU
400
200
0
0
5
10
15
20
25
30
35
40
45
500
300
200
nm
min.
400
200
0

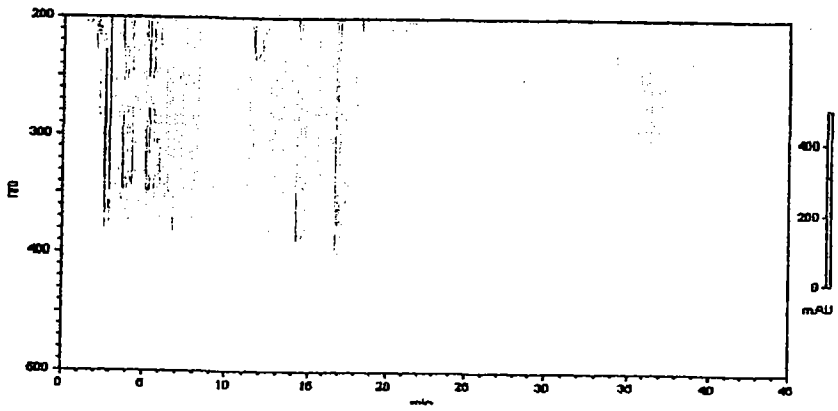
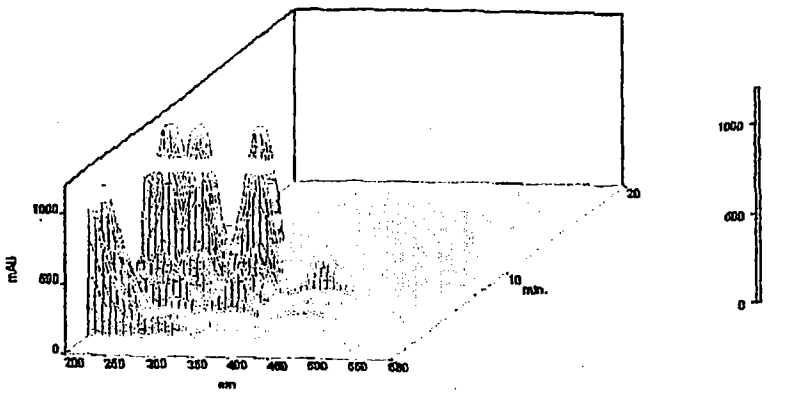

200
300
400
500
nm
0
5
10
15
20
25
30
35
40
45
min.
400
200
0
mAU

Figure 46


mAU
1000
600
0
200
250
300
350
400
450
500
550
600
nm
10
min.
20
1000
600
0

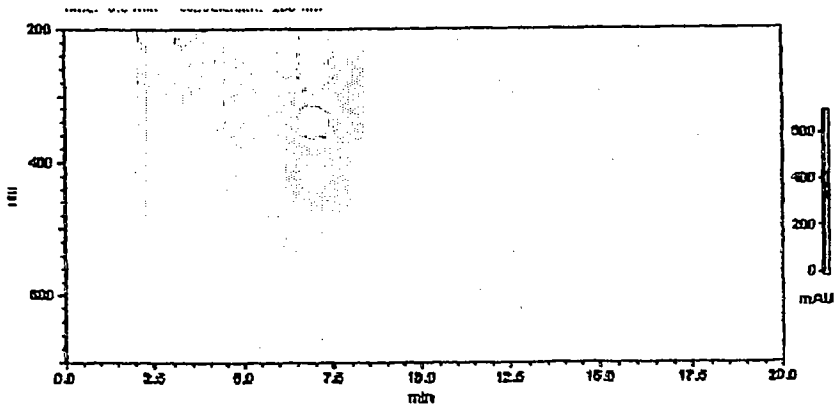
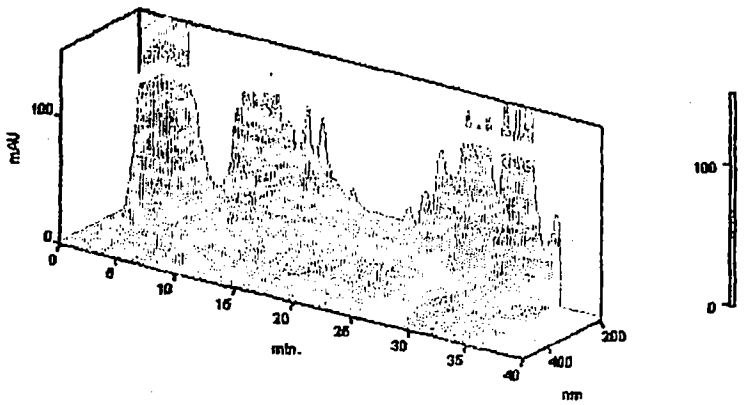

200
400
600
nm
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
20.0
min
600
400
200
0
mAU

Figure 47


mAU
100
0
0
5
10
15
20
25
30
35
40
min.
200
400
nm
100
0

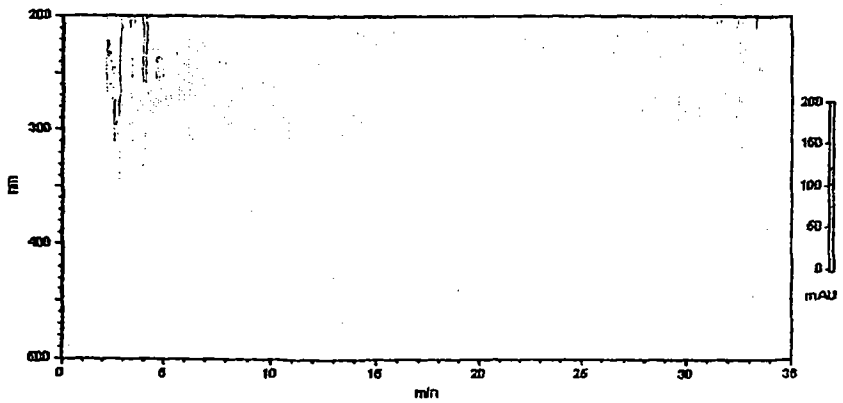
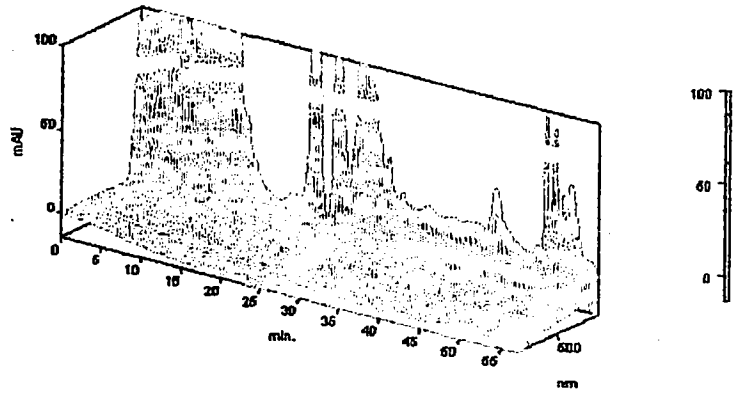

200
300
400
600
nm
0
5
10
15
20
25
30
35
min
200
150
100
50
0
mAU

Figure 48


100
60
0
mAU
0
5
10
15
20
25
30
35
40
45
50
55
min.
600
nm
100
60
0

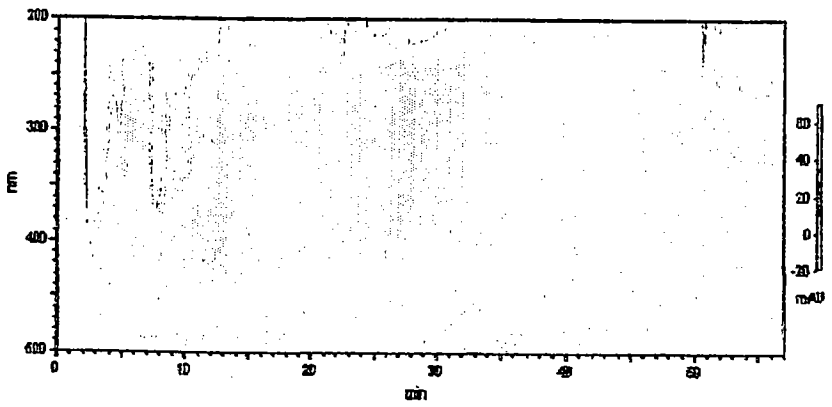
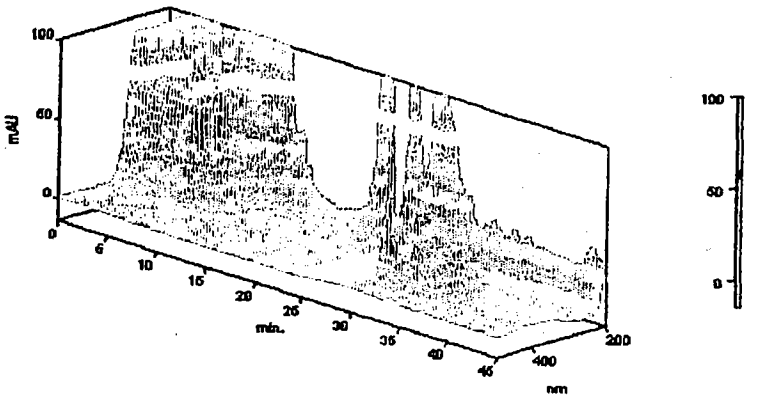

200
300
400
600
nm
0
10
20
30
40
50
min
60
40
20
0
-20
mAU

Figure 49


100
50
0
mAU
0
5
10
15
20
25
30
35
40
45
min.
200
400
nm
100
50
0

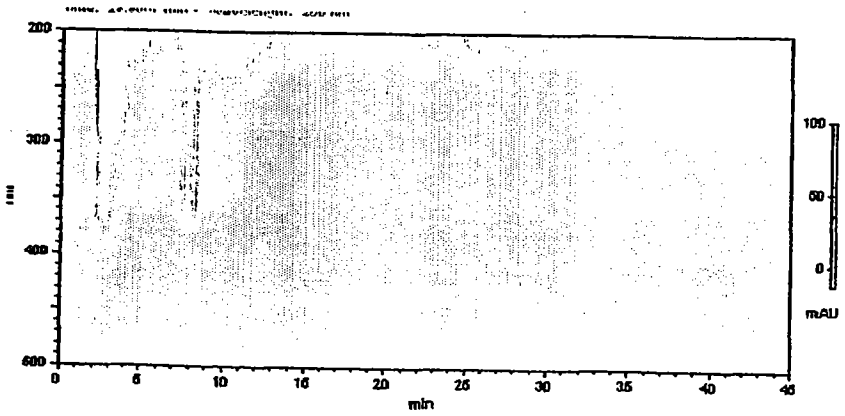
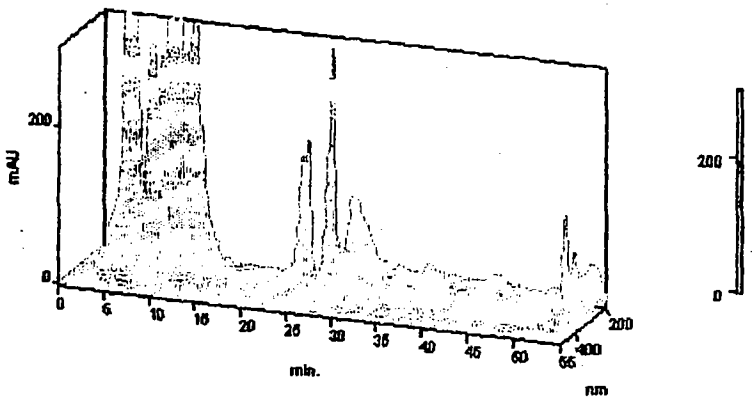

200
300
400
600
nm
0
5
10
15
20
25
30
35
40
45
min
100
50
0
mAU

Figure 50


mAU
200
0
0
5
10
15
20
25
30
35
40
45
50
55
min.
200
400
nm
200
0

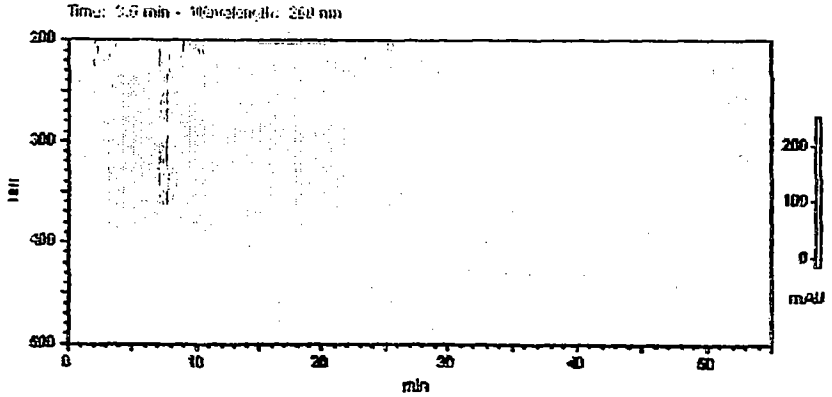
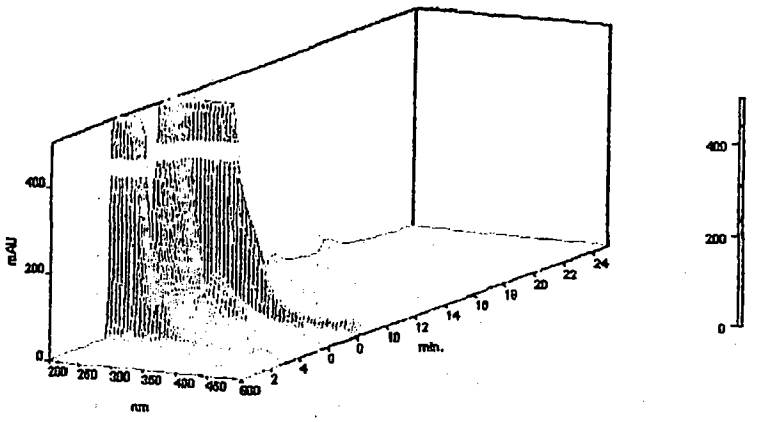

200
300
400
500
0
10
20
30
40
50
min
200
100
0
mAU

Figure 51


mAU
400
200
0
200 250 300 350 400 450 600
nm
2 4 6 8 10 12 14 16 18 20 22 24
min.
400
200
0

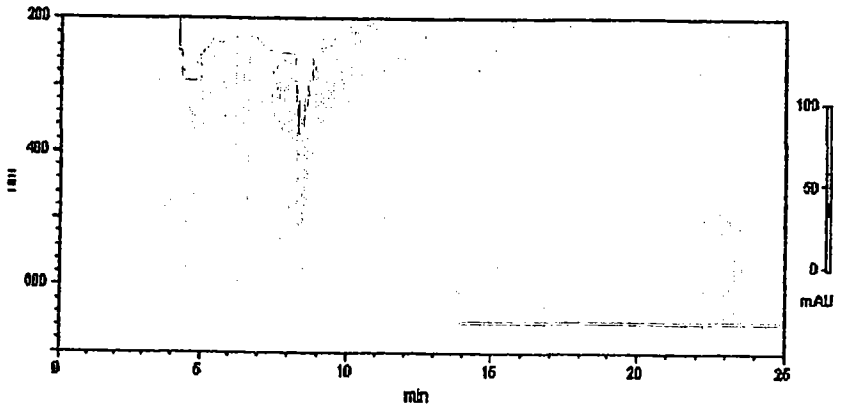

200
400
600
nm
0 5 10 15 20 25
min
100
50
0
mAU

Figure 52

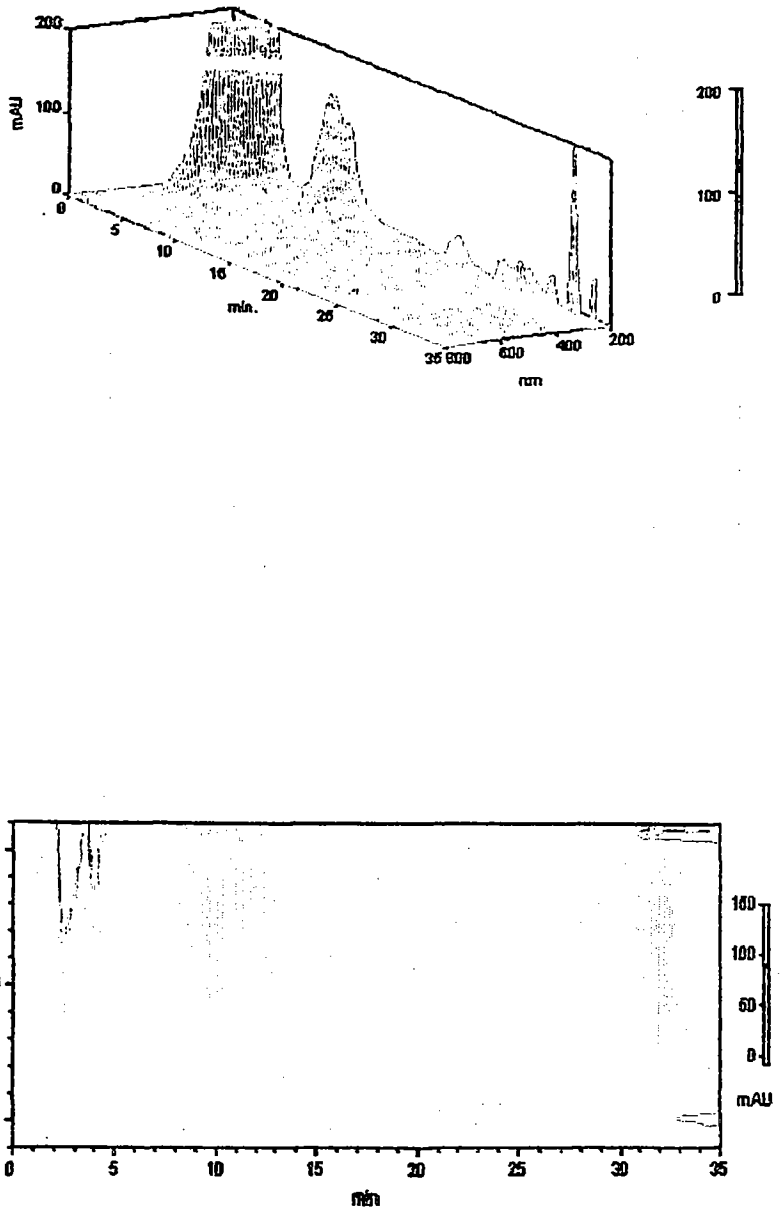
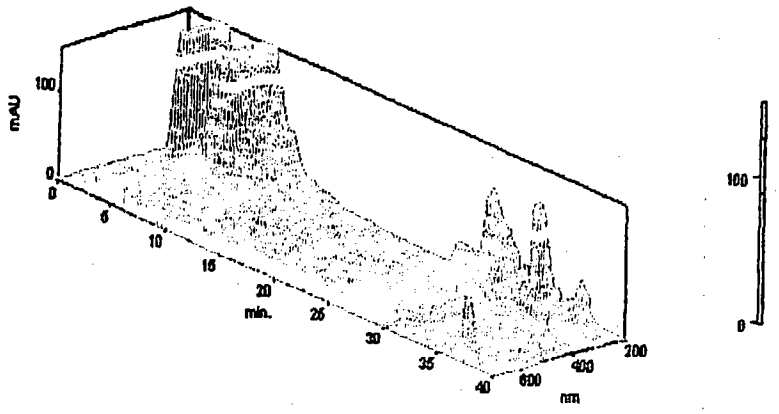

mAU
200
100
0
min.
0
5
10
15
20
25
30
35
600
500
400
200
nm
200
100
0
250
500
750
nm
0
5
10
15
20
25
30
35
min
160
100
60
0
mAU

Figure 53


mAU
100
0
0
5
10
15
20
min.
25
30
35
40
200
400
600
nm
100
0

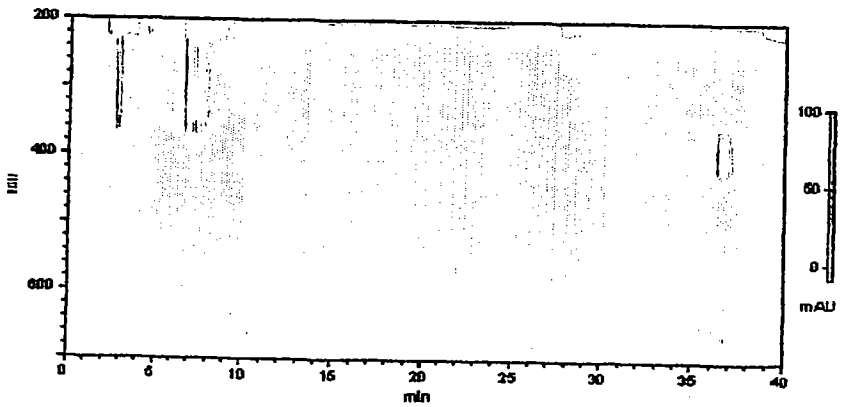
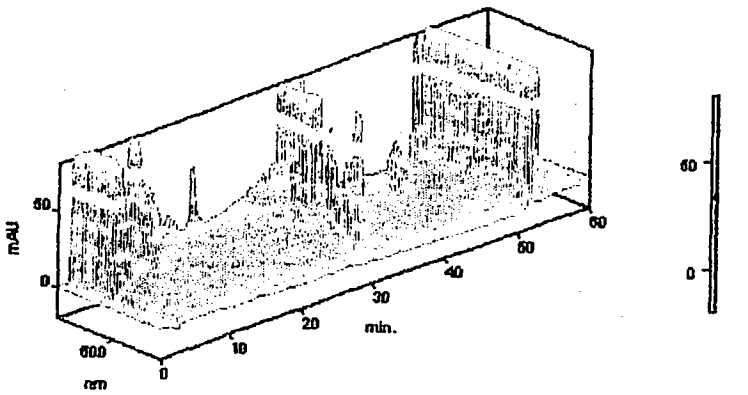

200
400
600
nm
0
5
10
15
20
25
30
35
40
min
100
50
0
mAU

Figure 54


mAU
60
0
nm
600
0
10
20
30
40
50
60
min.
60
0

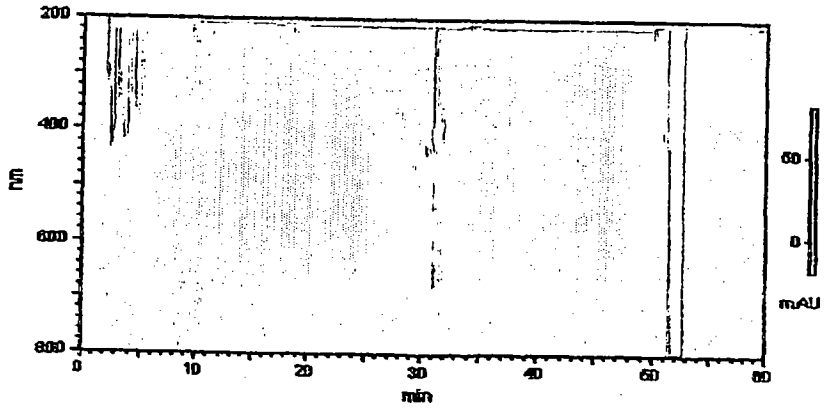
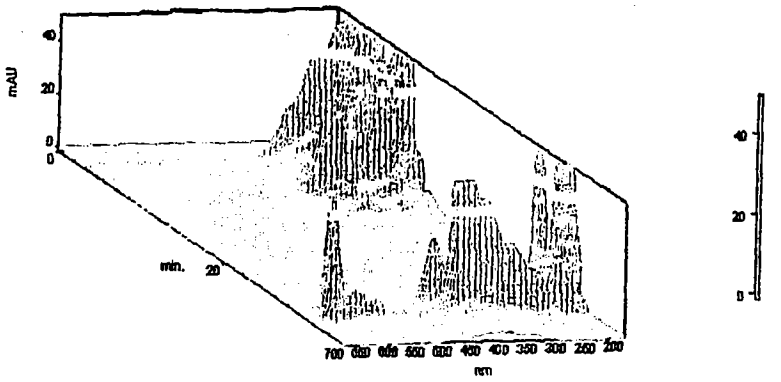

nm
200
400
600
800
0
10
20
30
40
50
60
min
60
0
mAU

Figure 55



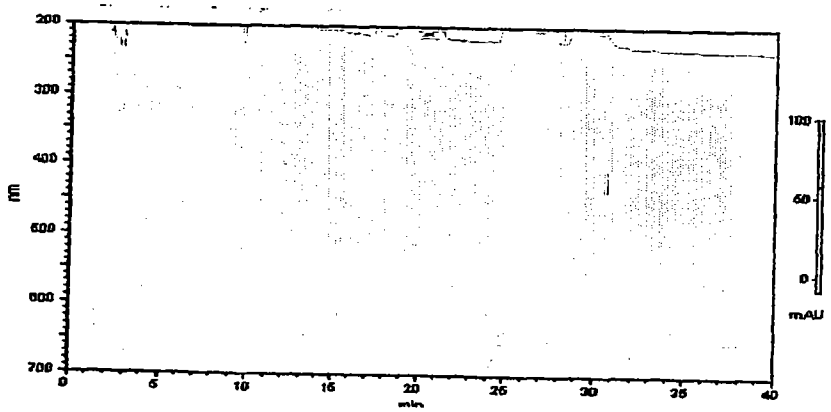
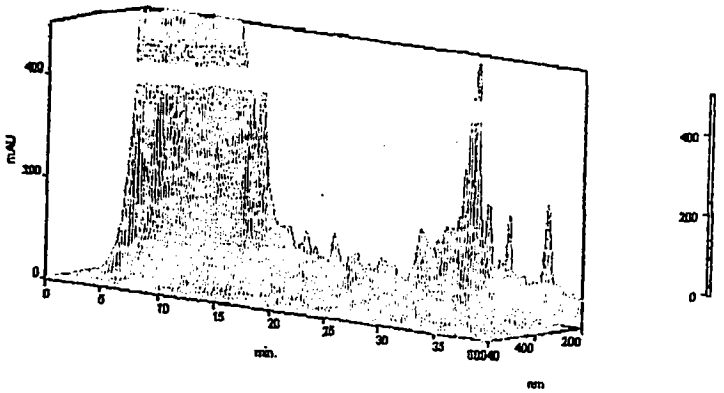


Figure 56



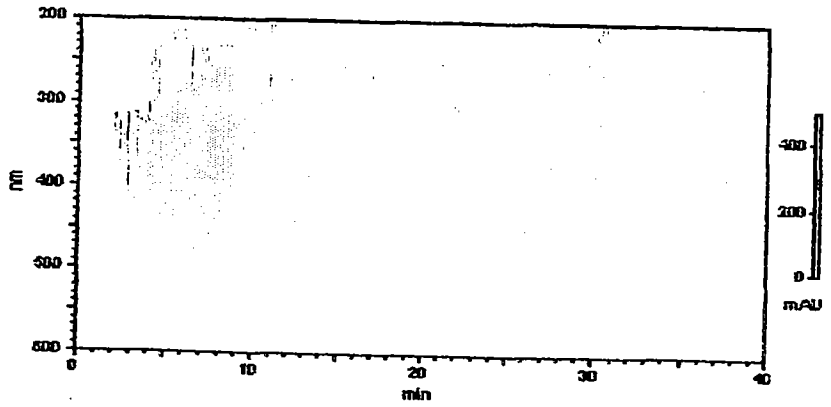
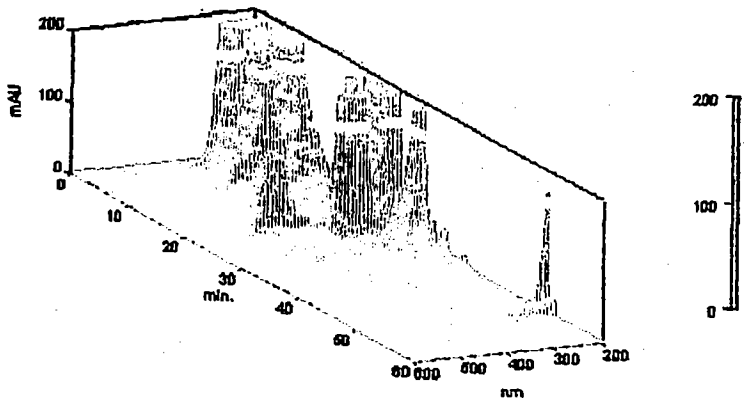


Figure 57


mAU
200
100
0
0
10
20
30
min.
40
60
600
500
400
300
200
nm
200
100
0

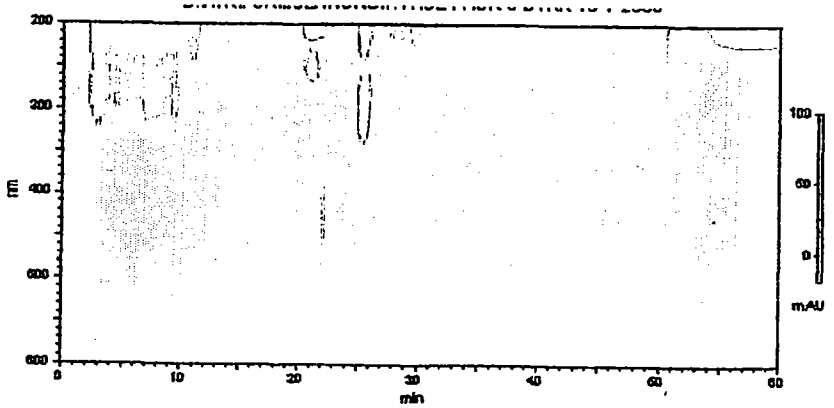
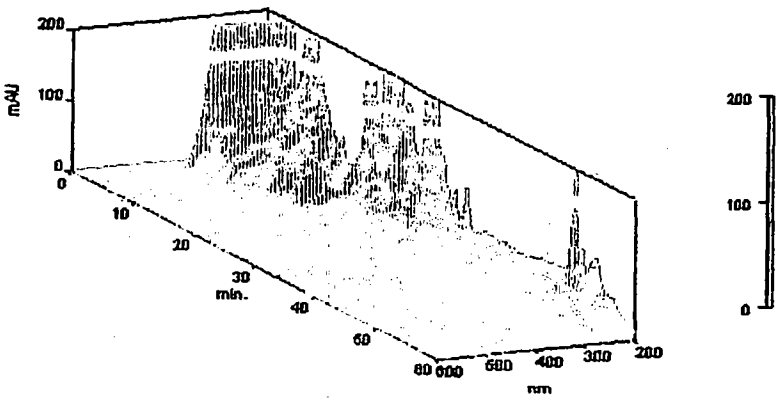

nm
200
300
400
600
600
0
10
20
30
40
60
min
100
60
0
mAU

Figure 58


mAU
200
100
0
0
10
20
30
min.
40
50
60
600
500
400
300
200
nm
200
100
0

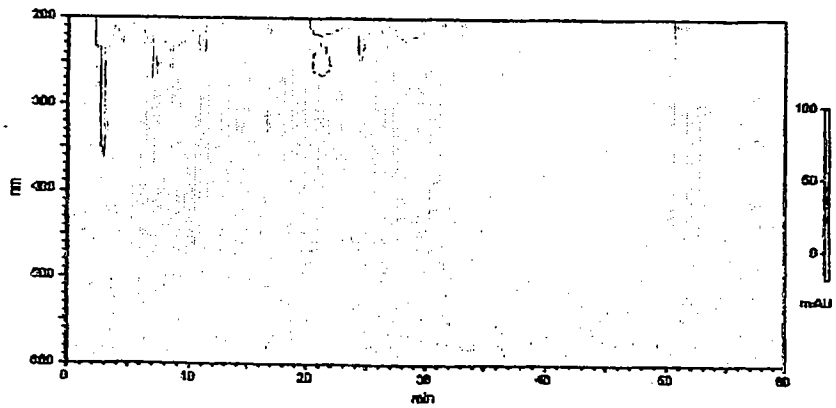
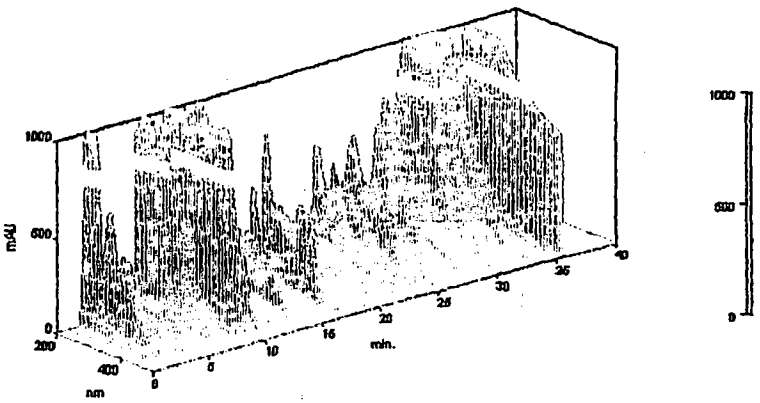

nm
200
300
400
500
600
0
10
20
30
40
50
60
min
100
50
0
mAU

Figure 59


mAU
1000
600
0
200
400
nm
0
5
10
15
20
25
30
35
40
min.
1000
600
0

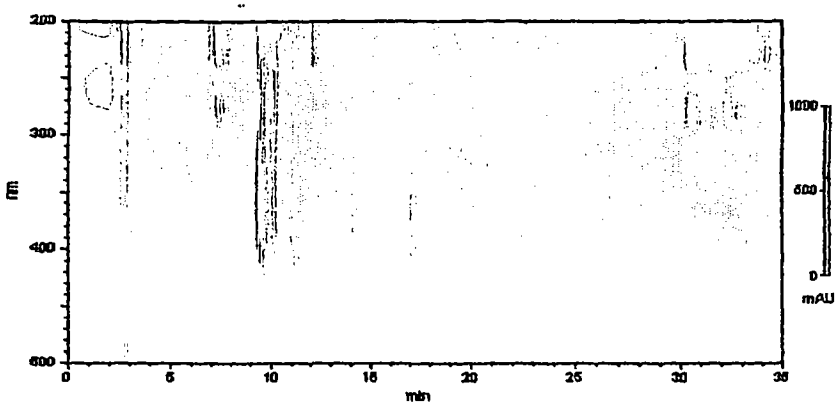
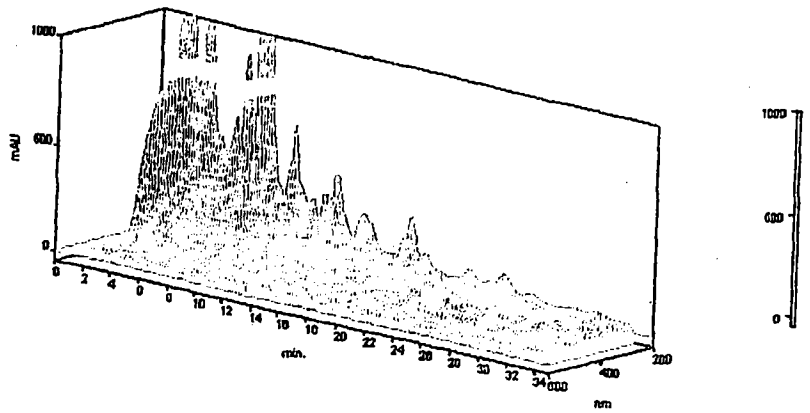

nm
200
300
400
500
0
5
10
15
20
25
30
35
min
1000
600
0
mAU

Figure 60



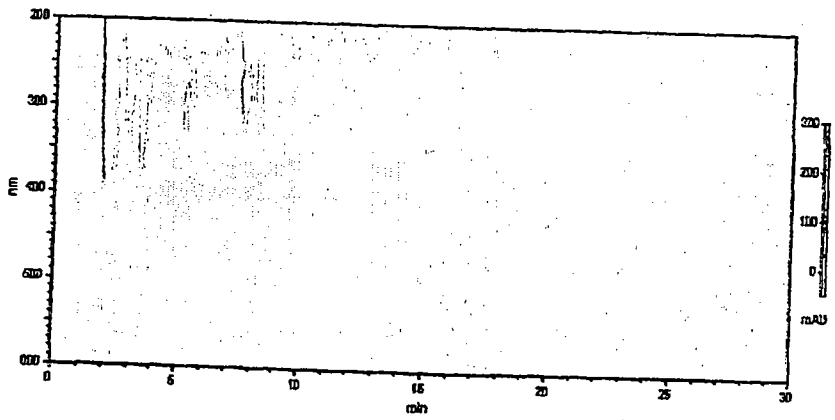
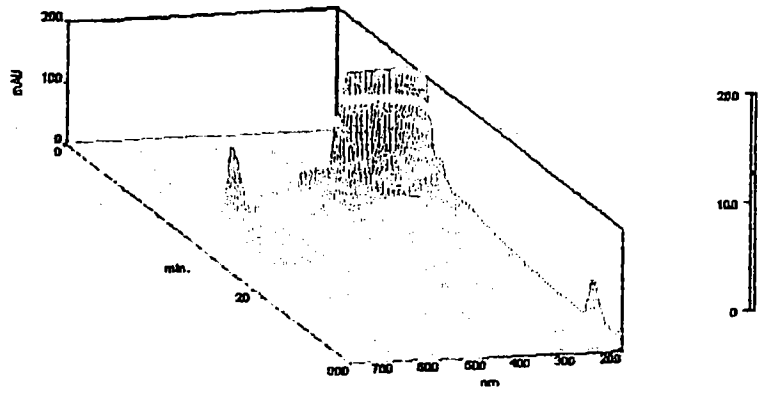


Figure 61


mAU
200
100
0
min.
20
nm
700
800
500
400
300
200
200.0
100.0
0

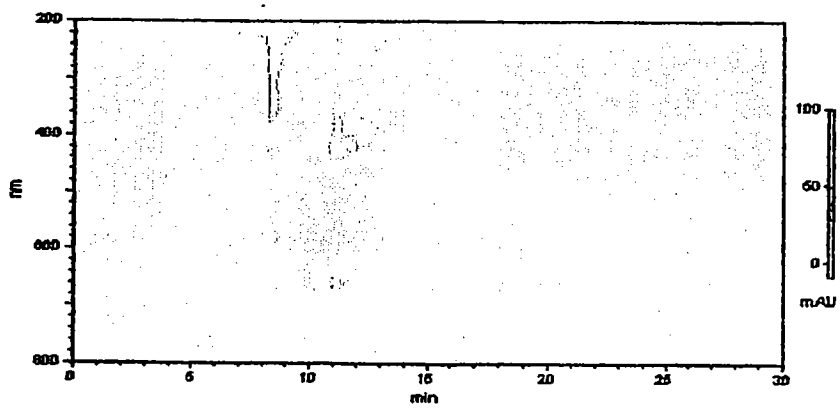
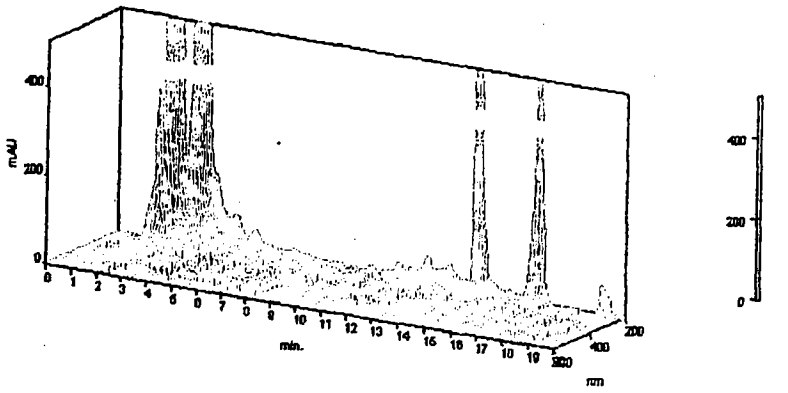

200
400
600
800
nm
0
5
10
15
20
25
30
min
100
50
0
mAU

Figure 62


mAU
400
200
0
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19
min.
200
400
nm
400
200
0

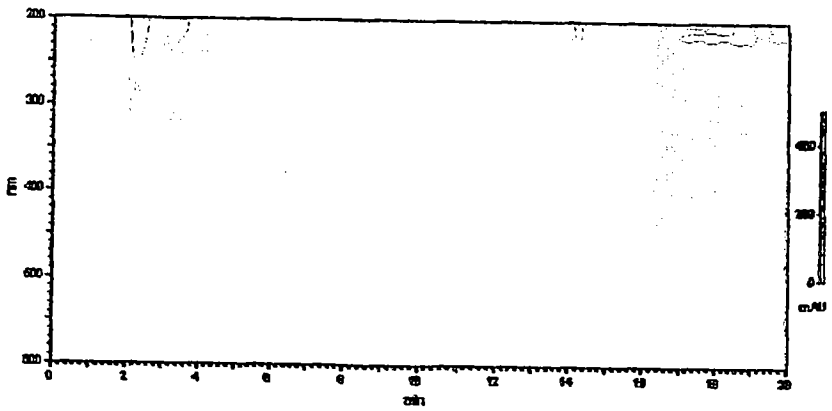
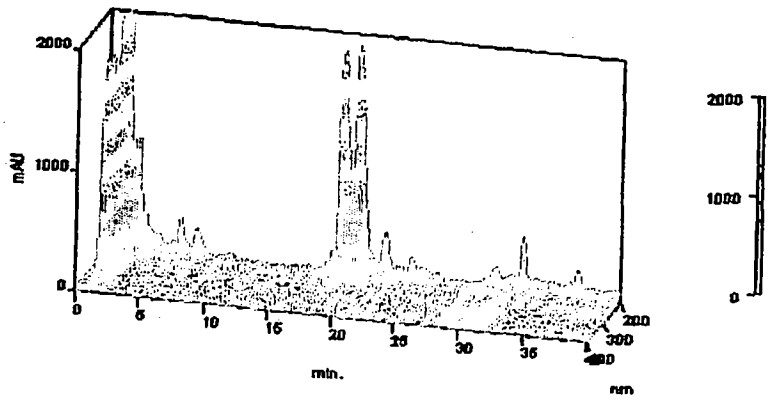

nm
200
300
400
500
600
0 2 4 6 8 10 12 14 16 18 20
min
mAU

FIGURE 63


2000
1000
0
mAU
0
5
10
15
20
25
30
35
40
min.
200
300
400
nm
2000
1000
0

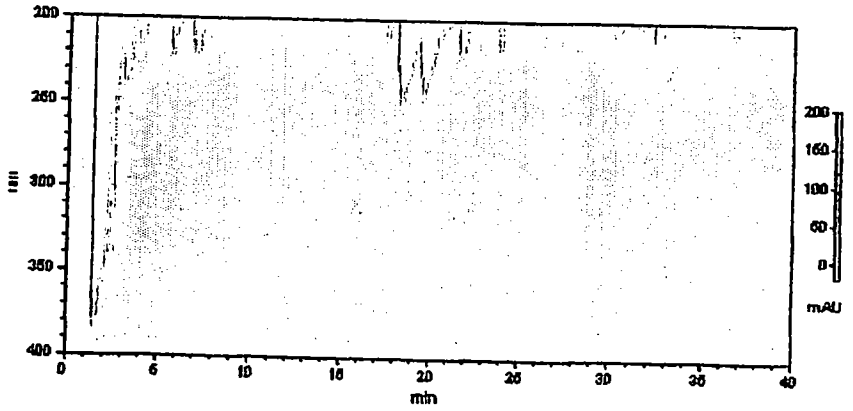
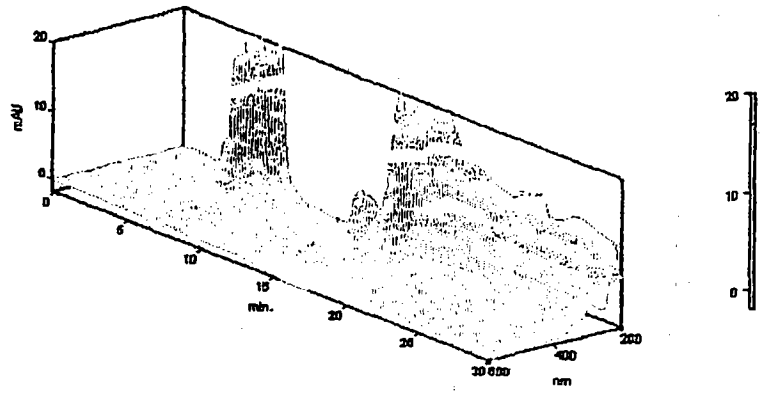

200
250
300
350
400
nm
0
5
10
15
20
25
30
35
40
min
200
150
100
50
0
mAU

Figure 64



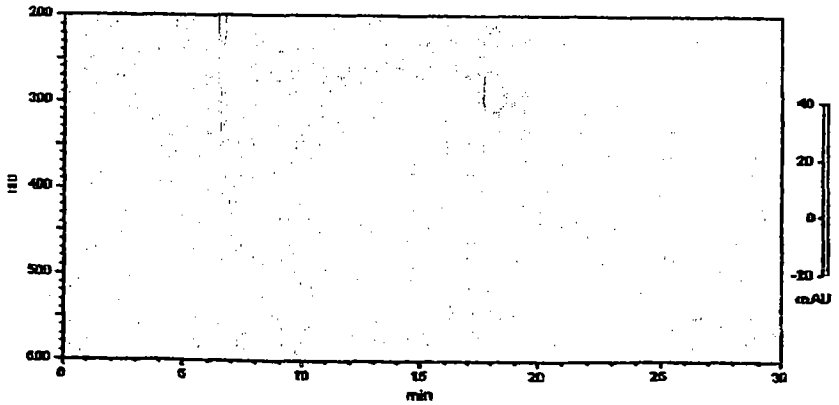
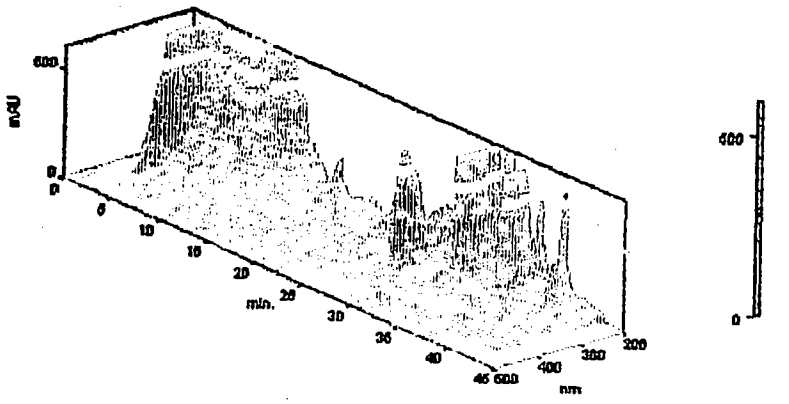


Figure 65


mAU
600
0
0
5
10
15
20
min.
25
30
35
40
45
600
400
300
200
nm
600
0

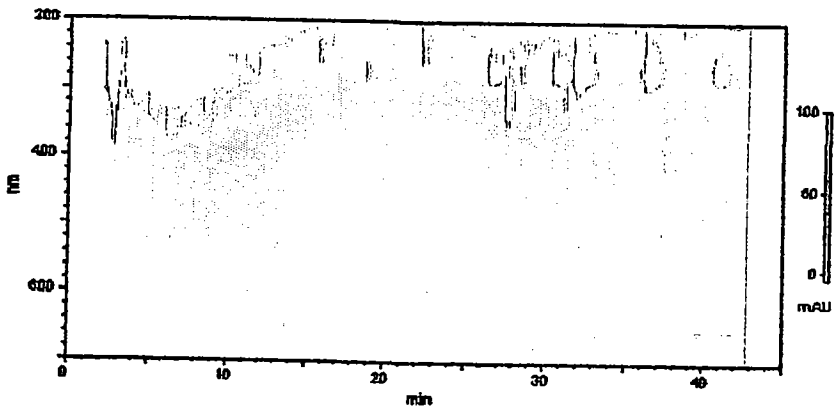
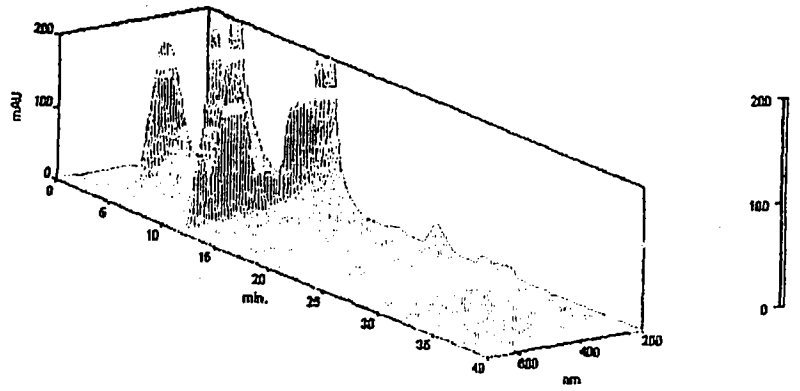

200
400
600
nm
0
10
20
30
40
min
100
50
0
mAU

Figure 66


mAU
200
100
0
0
5
10
15
20
25
30
35
40
min.
200
400
600
nm
200
100
0

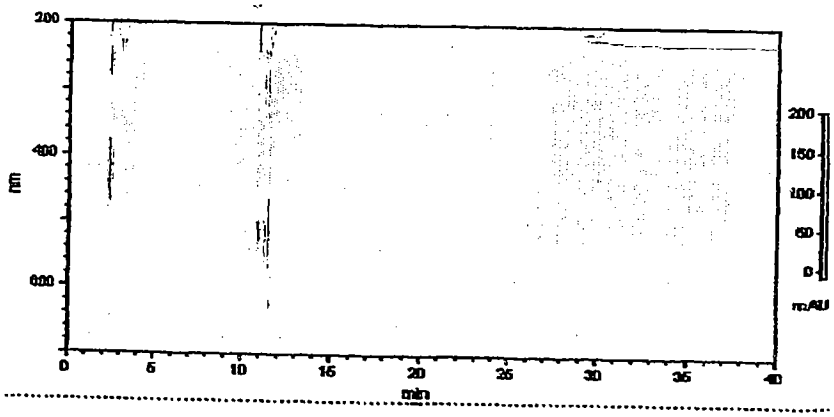
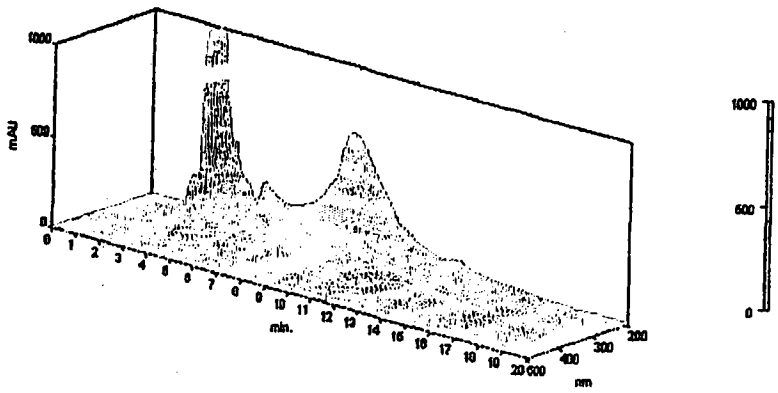

nm
200
400
600
0
5
10
15
20
25
30
35
40
min
200
150
100
50
0
mAU

Figure 67


mAU
1000
600
0
min.
nm
200
300
400
600
1000
600
0

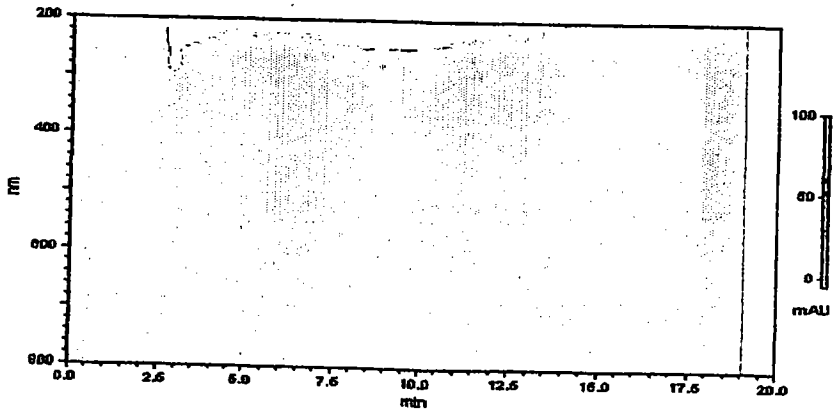
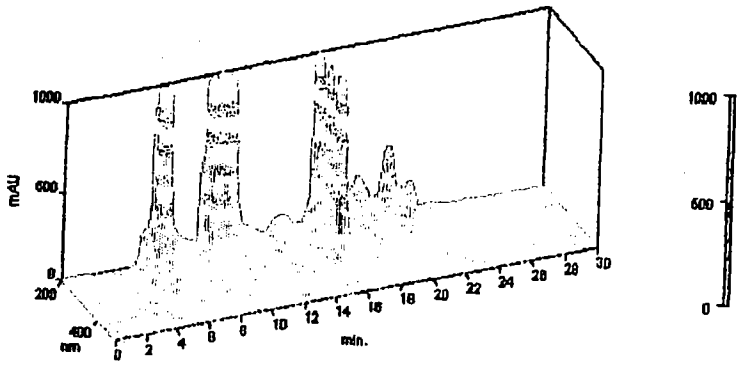

nm
200
400
600
800
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
20.0
min
100
50
0
mAU

Figure 68


1000
600
0
mAU
200
400
nm
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
min.
1000
600
0

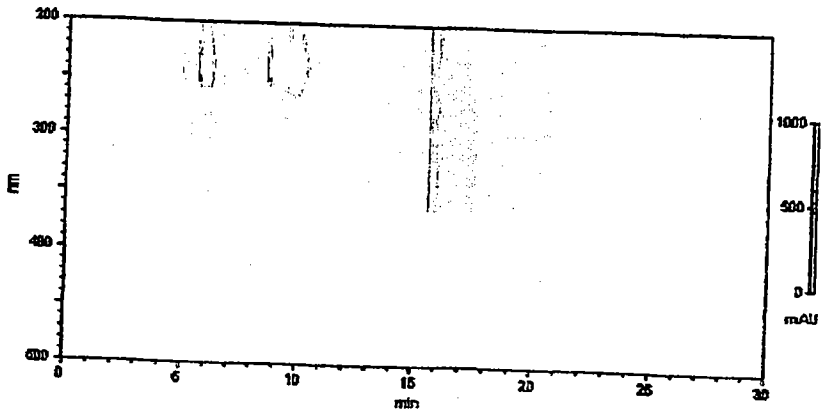
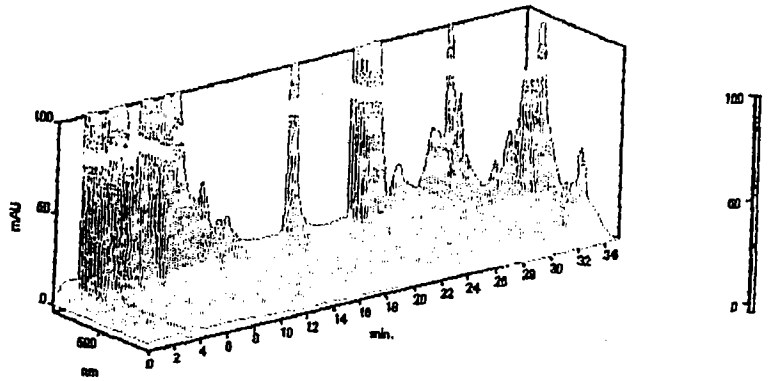

200
300
400
600
nm
0
5
10
15
20
25
30
min
1000
500
0
mAU

Figure 69



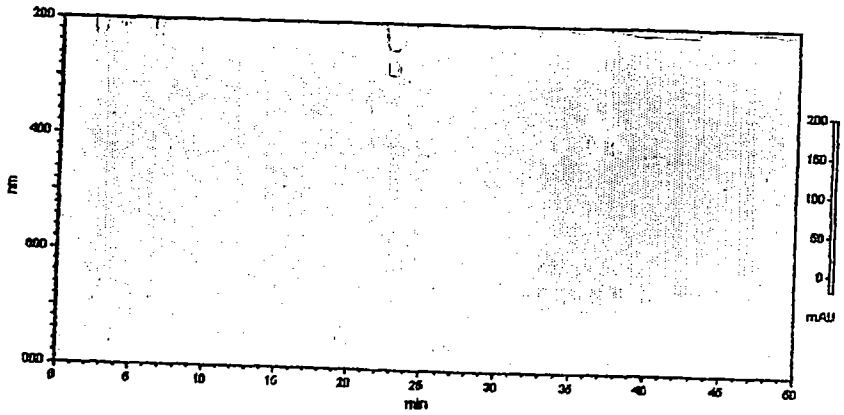
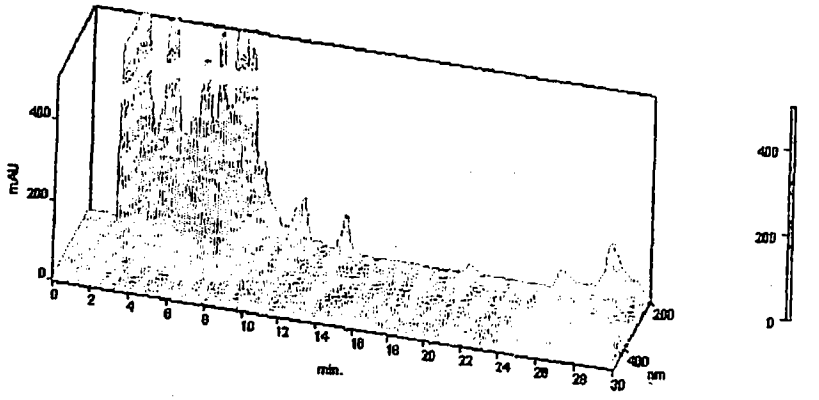


Figure 70


mAU
400
200
0
0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30
min.
200
400
nm
400
200
0

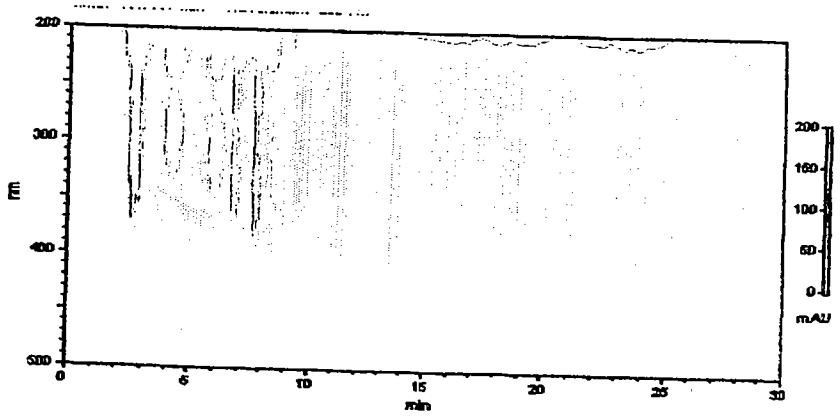
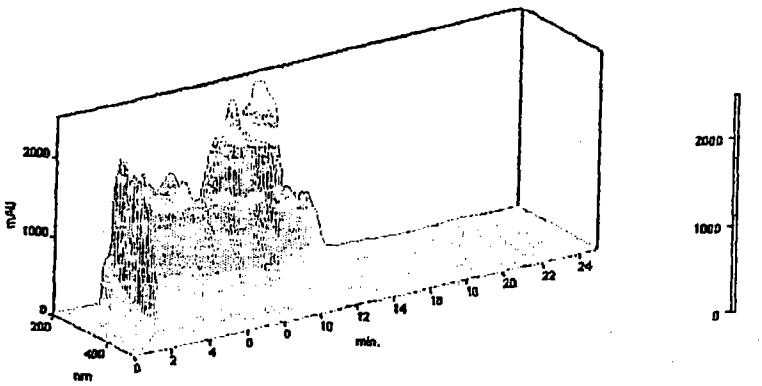

200
300
400
500
nm
0 5 10 15 20 25 30
min
200
150
100
50
0
mAU

Figure 71


mAU
2000
1000
0
200
400
nm
0
2
4
6
8
10
12
14
16
18
20
22
24
min.
2000
1000
0

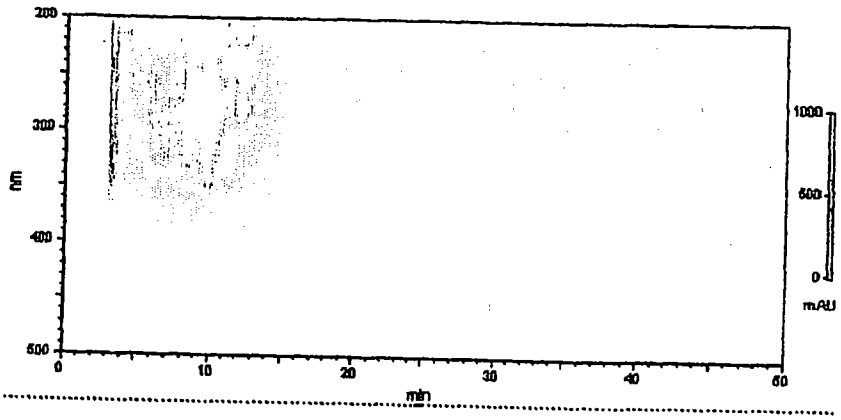
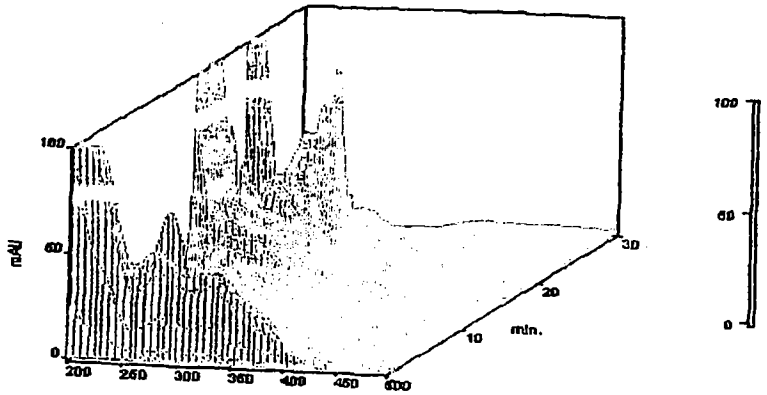

200
300
400
500
nm
0
10
20
30
40
50
min
1000
500
0
mAU

Figure 72


100
60
0
mAU
200
250
300
350
400
450
600
10
20
30
min.
100
60
0

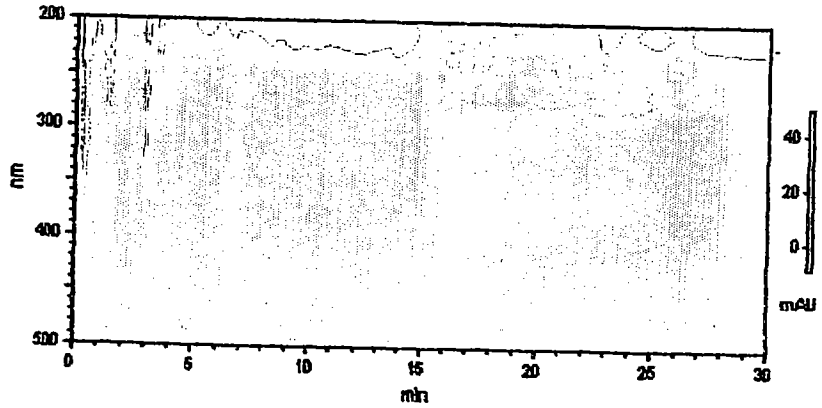
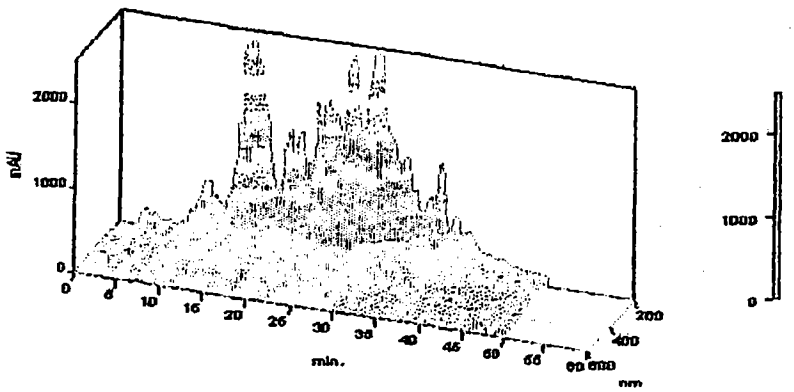

200
300
400
500
nm
0
5
10
15
20
25
30
min
40
20
0
mAU

Figure 73



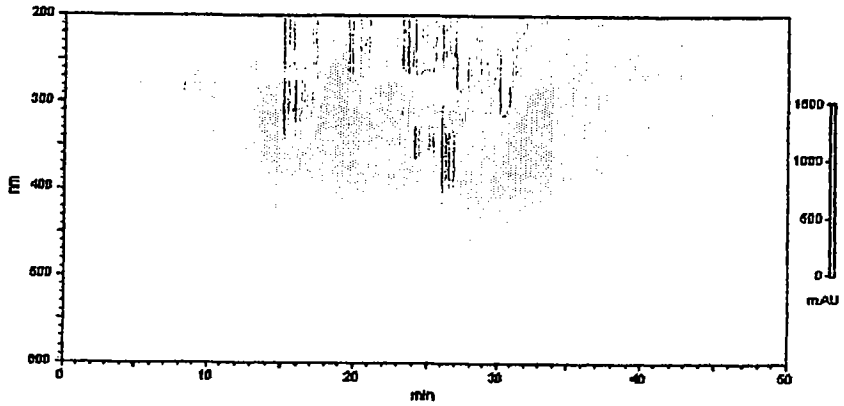
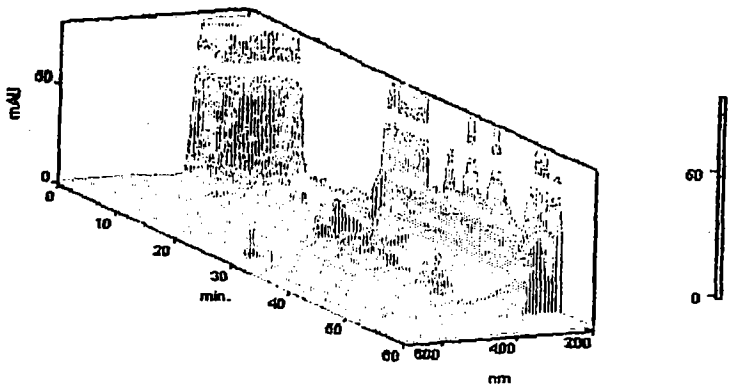


Figure 74


mAU
60
0
0
10
20
30
min.
40
50
60
600
400
200
nm
60
0

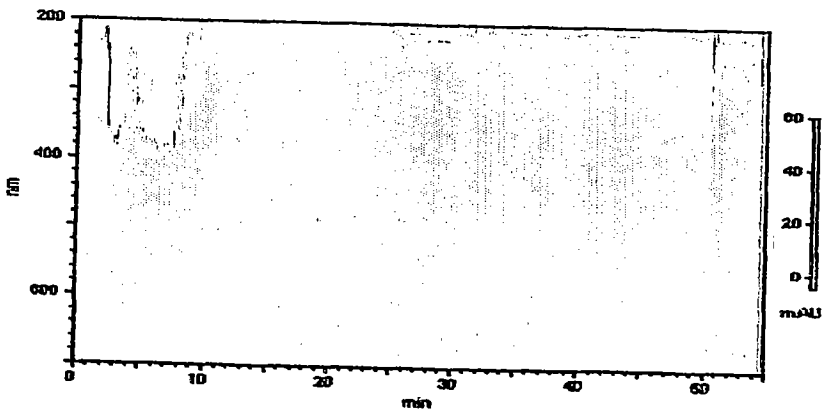
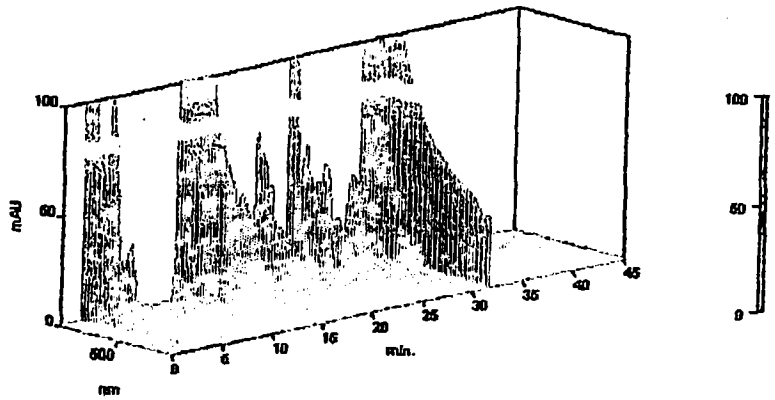

200
400
600
nm
0
10
20
30
40
50
min
60
40
20
0
mAU

Figure 75


100
50
0
mAU
600
nm
0
5
10
15
20
25
30
35
40
45
min.
100
50
0

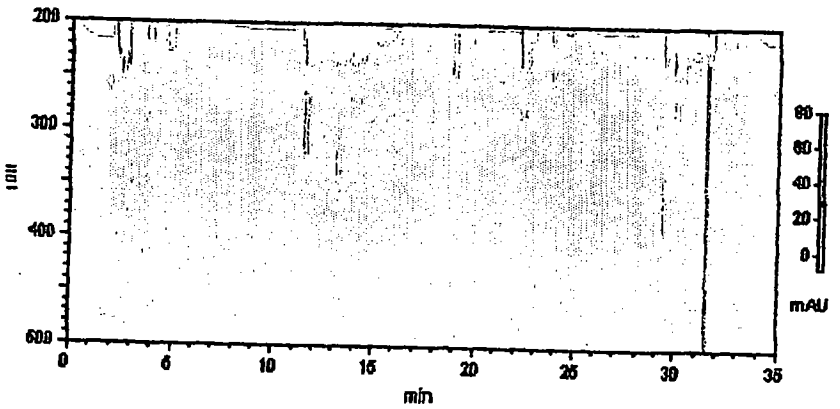
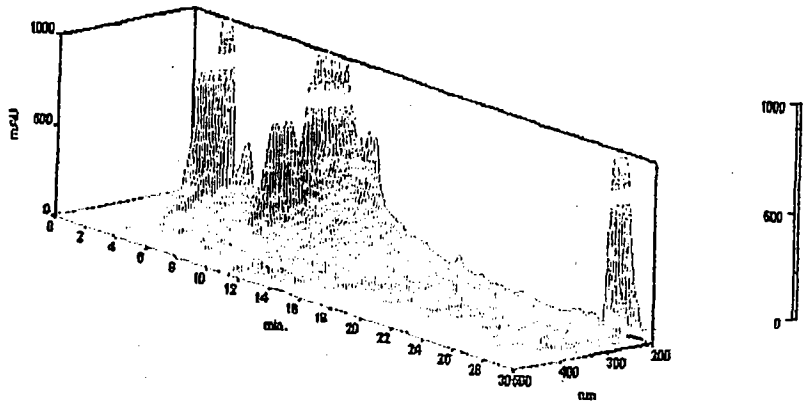

200
300
400
600
nm
0
5
10
15
20
25
30
35
min
80
60
40
20
0
mAU

Figure 76


1000
600
0
mAU
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
min.
200
300
400
nm
1000
600
0

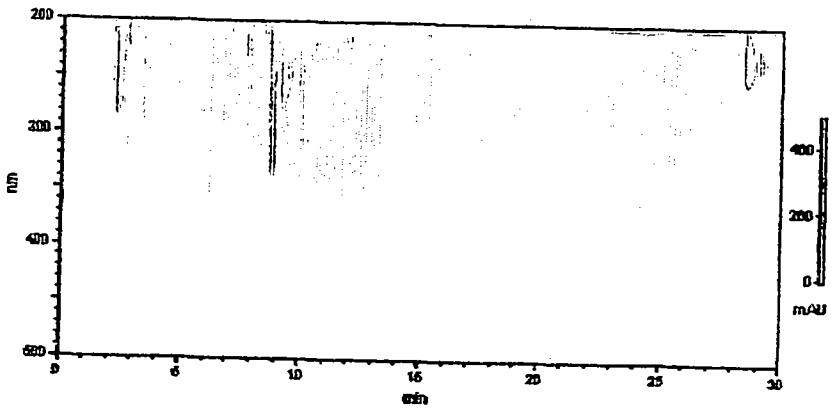
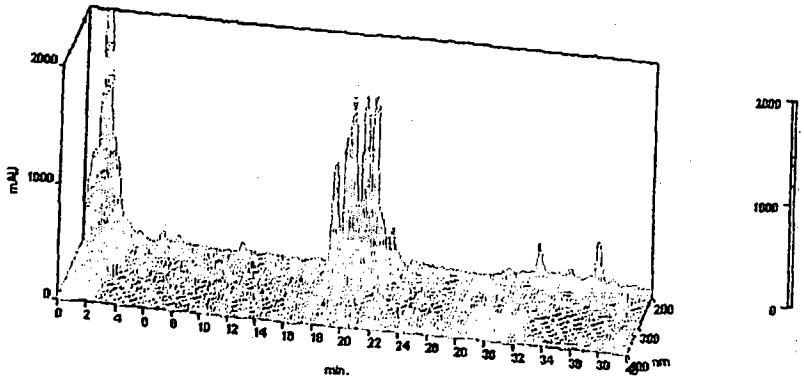

200
300
400
600
nm
5
10
15
20
25
30
min
400
200
0
mAU

Figure 77



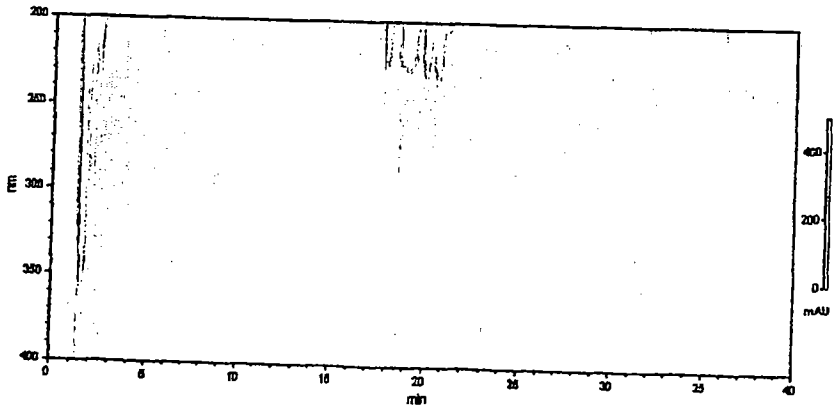
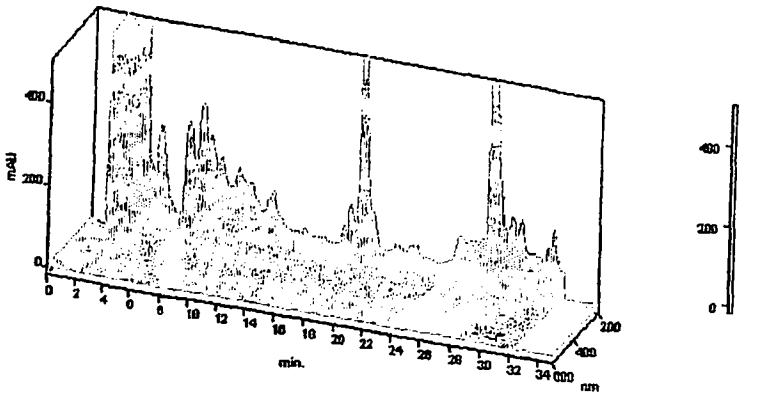


Figure 78



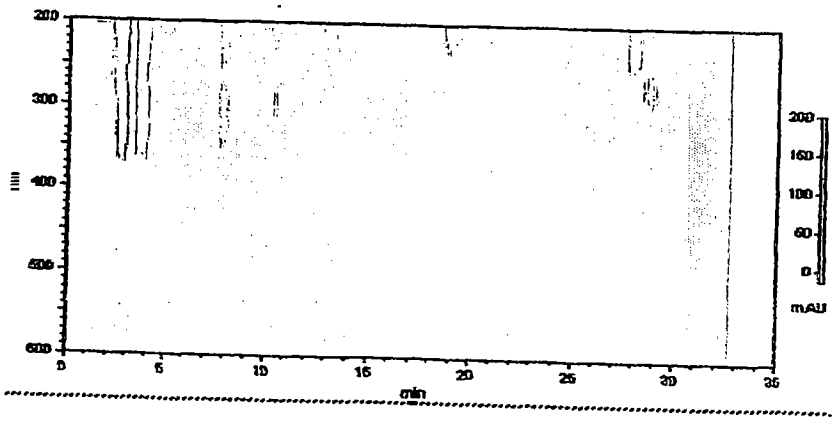
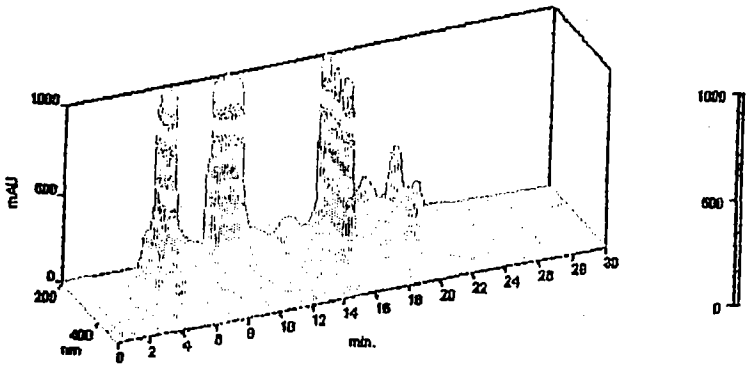


Figure 79


1000
600
0
mAU
200
400
nm
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
min.
1000
600
0

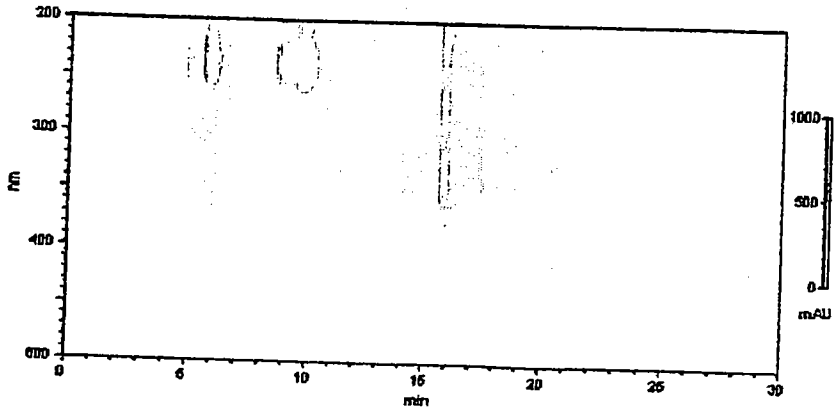
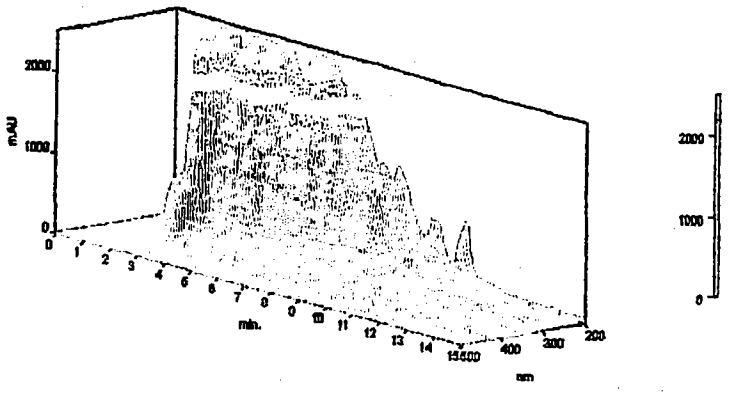

200
300
400
600
nm
0
5
10
15
20
25
30
min
1000
500
0
mAU

Figure 80



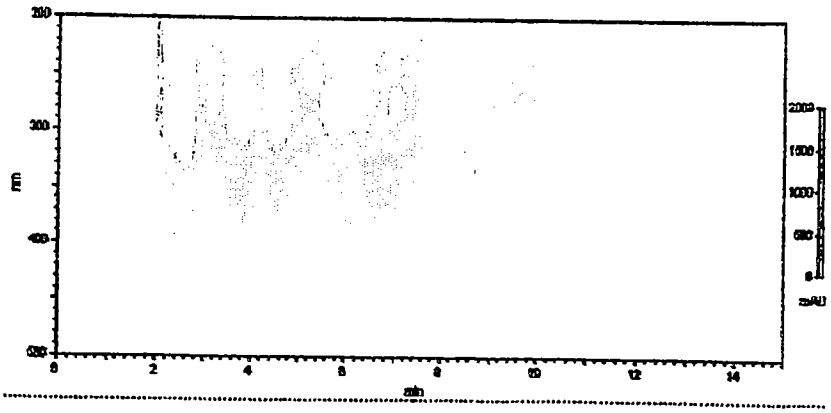
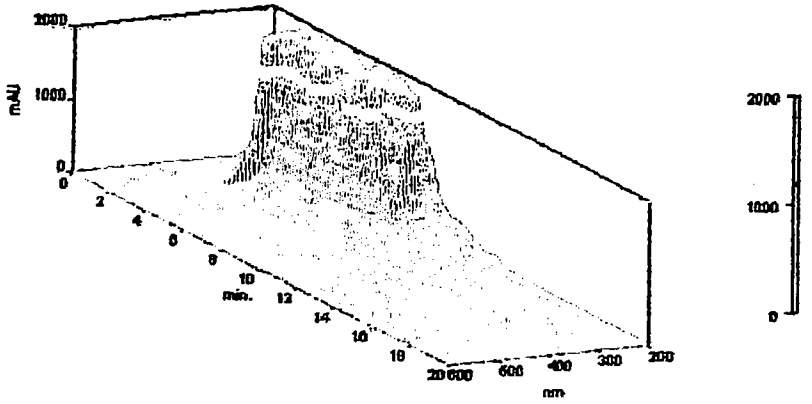


Figure 81


2000
1000
0
mAU
0
2
4
6
8
10
min.
12
14
16
18
20
600
500
400
300
200
nm
2000
1000
0

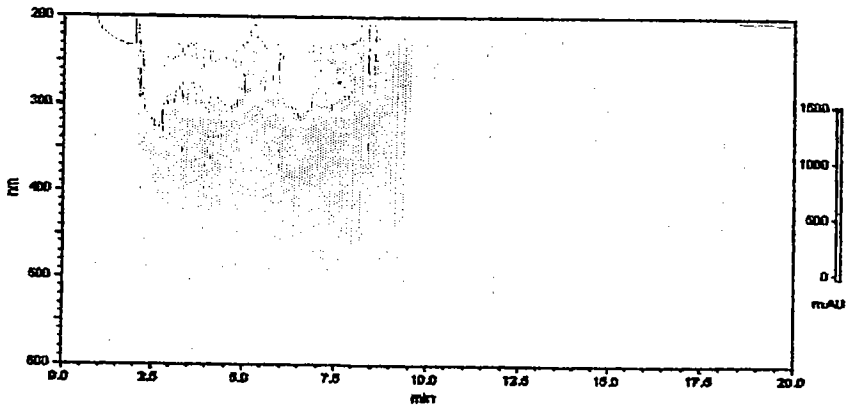
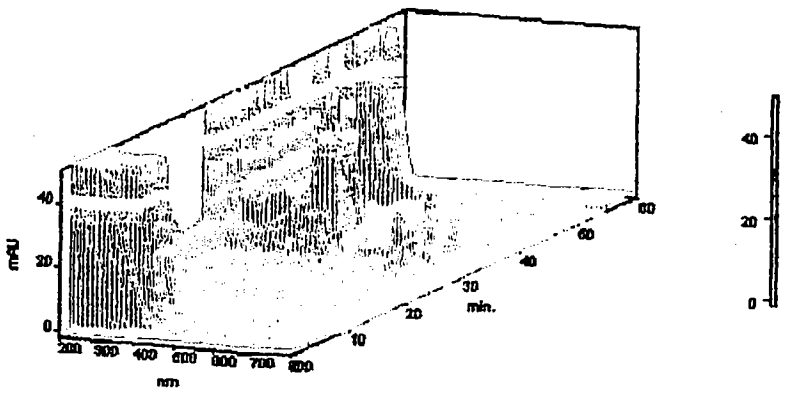

200
300
400
500
600
nm
9.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
20.0
min
1500
1000
500
0
mAU

Figure 82


mAU
40
20
0
200
300
400
500
600
700
nm
10
20
30
40
60
min.
40
20
0

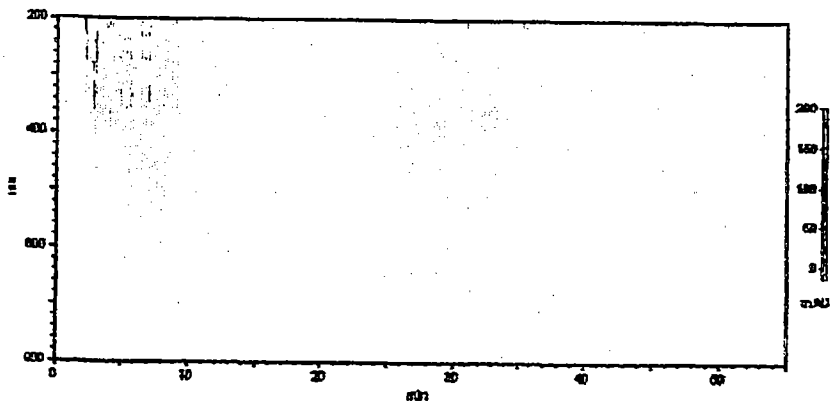
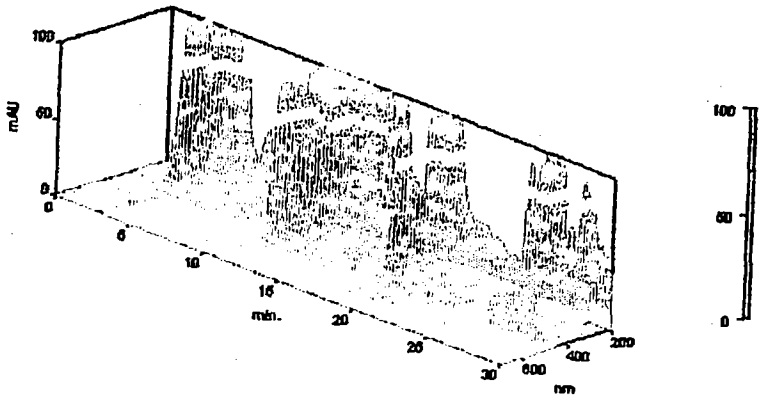

200
400
600
nm
0
10
20
30
40
60
min
200
150
100
50
0
mAU

Figure 83


mAU
100
60
0
0
5
10
15
min.
20
25
30
200
400
600
nm
100
50
0

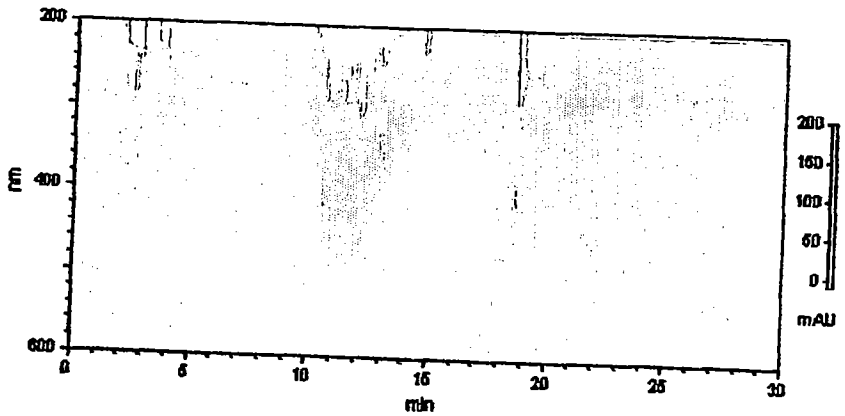
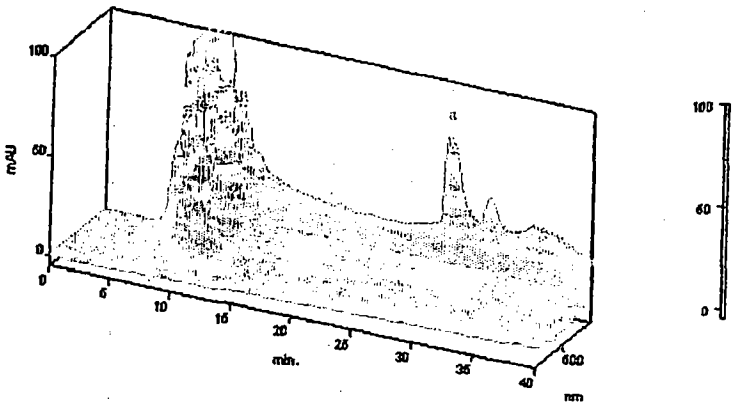

200
nm
400
600
0
5
10
15
20
25
30
min
200
150
100
50
0
mAU

Figure 84


100
50
0
mAU
0
5
10
15
20
25
30
35
40
min.
600
nm
100
50
0

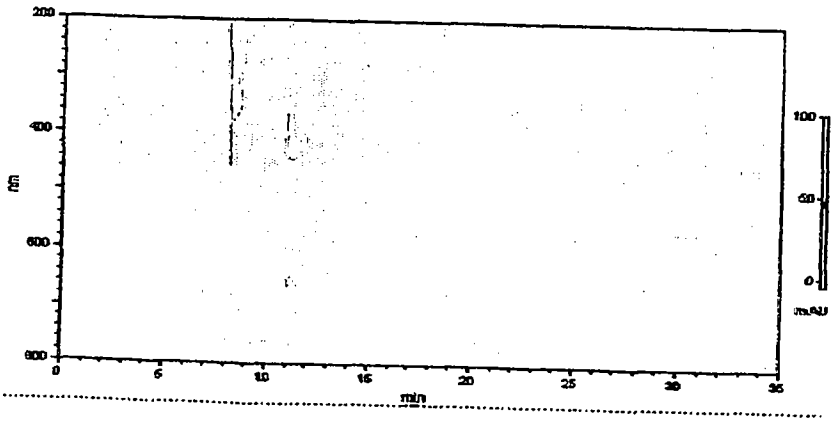
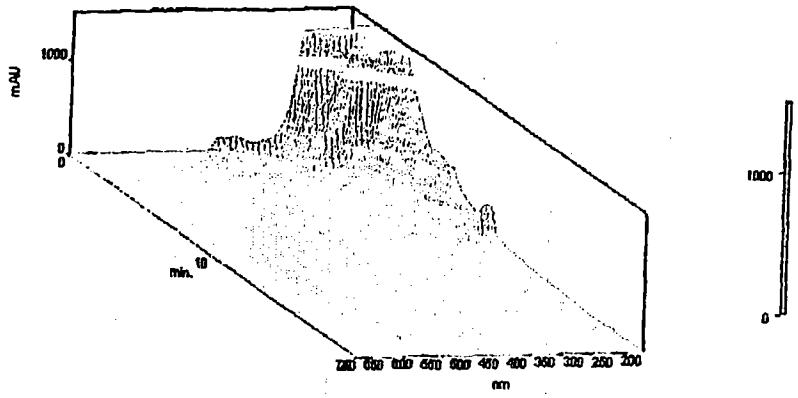

200
400
600
800
nm
0
5
10
15
20
25
30
35
min
100
50
0
mAU

Figure 85


mAU
1000
0
0
min.
10
nm
1000
0

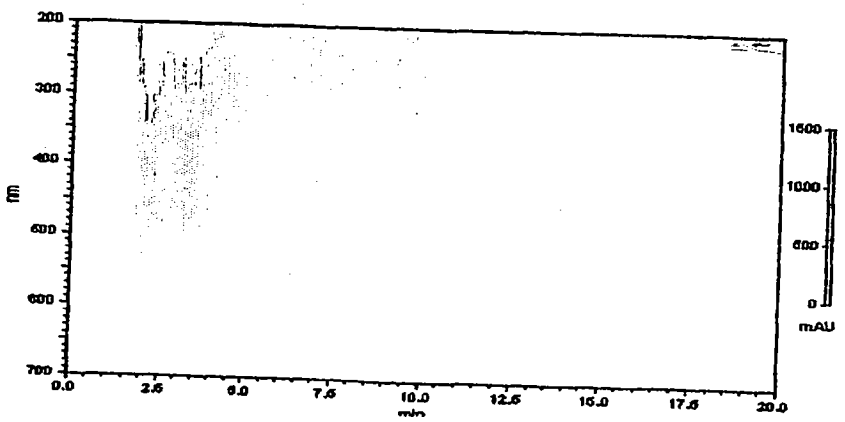
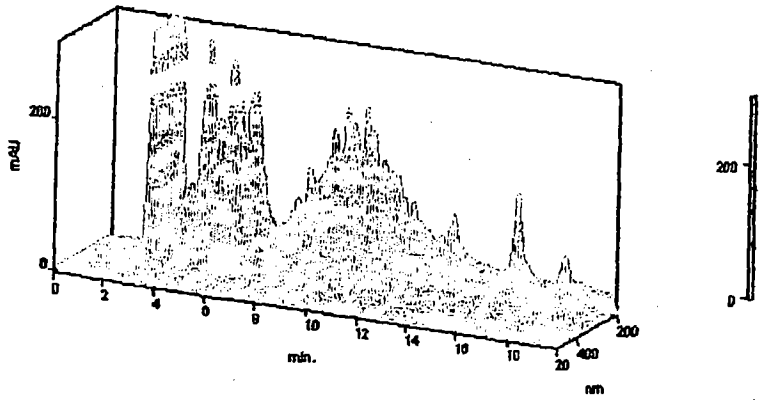

200
300
400
600
800
700
nm
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
20.0
min
1600
1000
600
0
mAU

Figure 86


mAU
200
0
0
2
4
6
8
10
12
14
16
18
20
min.
200
400
nm
200
0

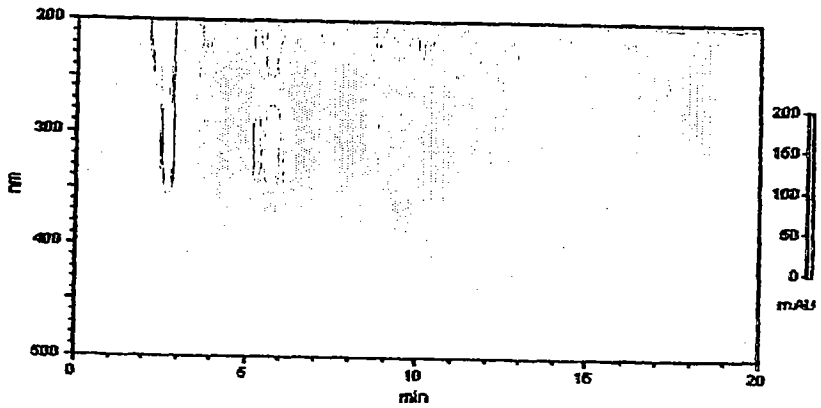
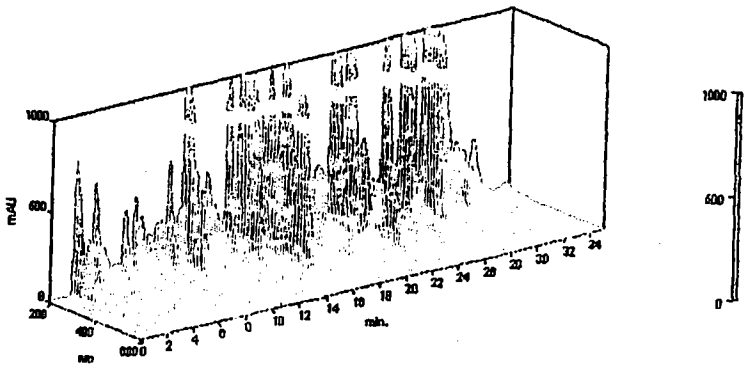

200
300
400
500
nm
0
5
10
15
20
min
200
150
100
50
0
mAU

FIGURE 87


mAU
1000
600
0
min.
1000
600
0

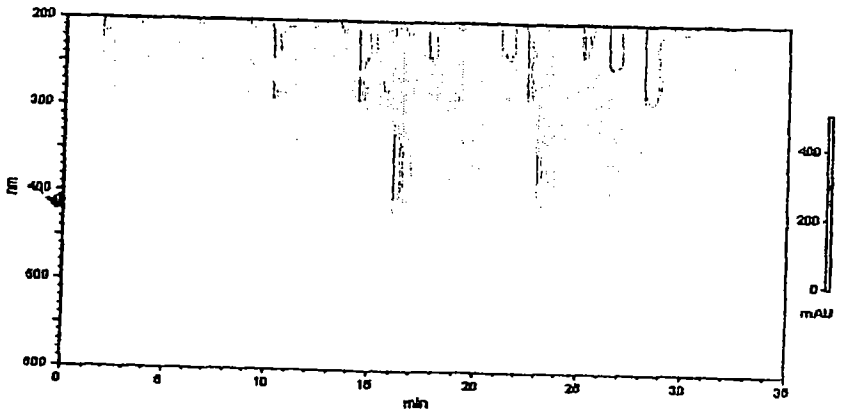
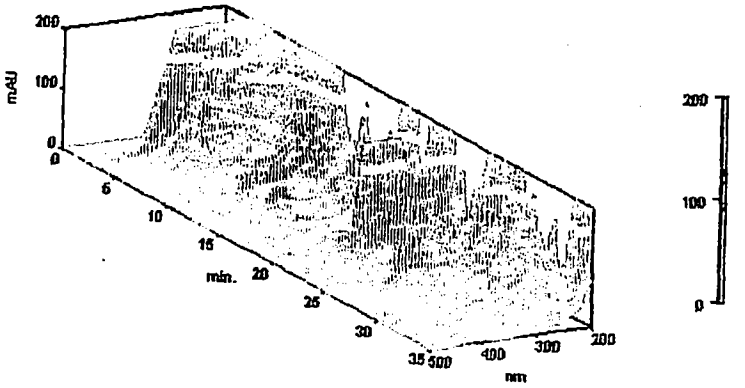

nm
200
300
400
600
0
5
10
15
20
25
30
35
min
400
200
0
mAU

Figure 88


mAU
200
100
0
0
5
10
15
min.
20
25
30
35
300
400
nm
200
100
0

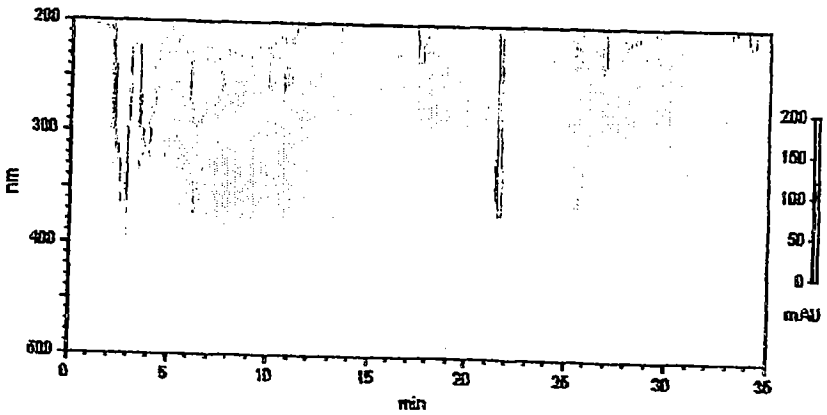
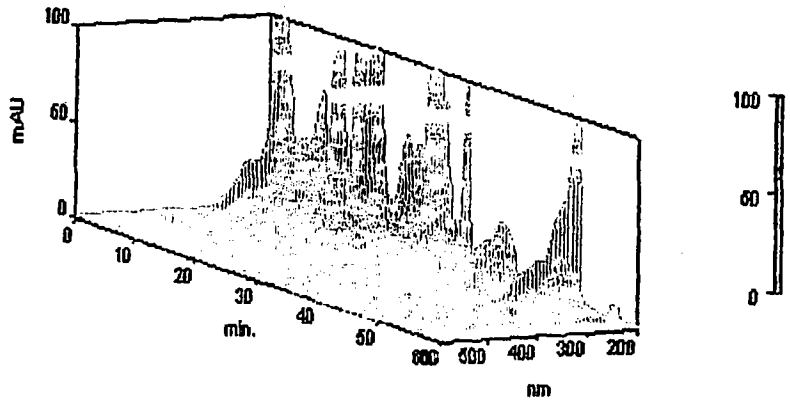

nm
200
300
400
600
0
5
10
15
20
25
30
35
min
200
150
100
50
0
mAU

Figure 89


100
60
0
mAU
0
10
20
30
40
50
min.
600
500
400
300
200
nm
100
60
0

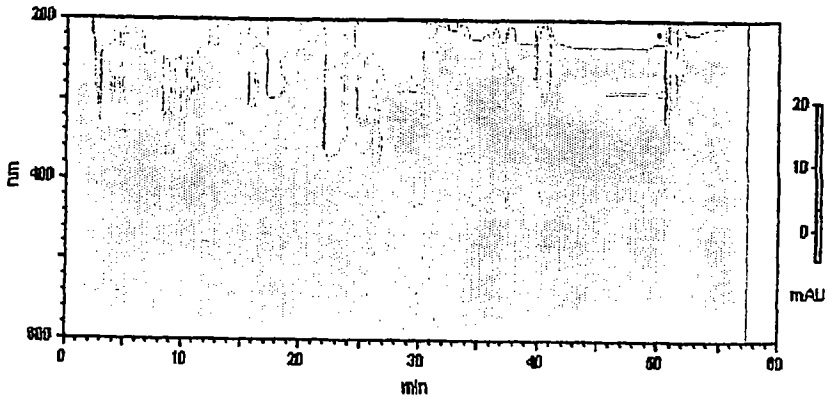
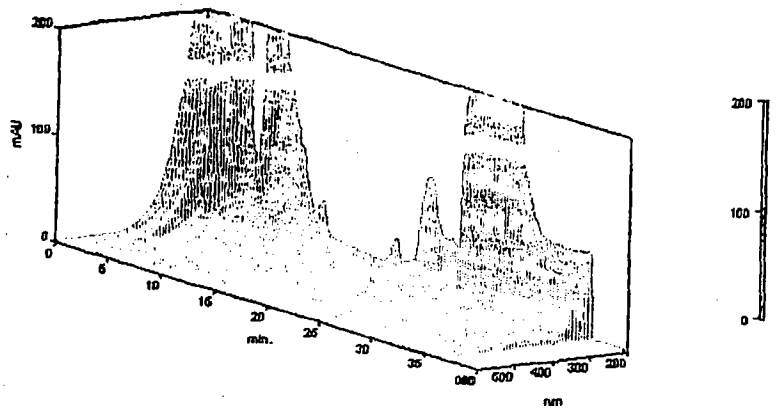

200
400
600
nm
0
10
20
30
40
50
60
min
20
10
0
mAU

Figure 90



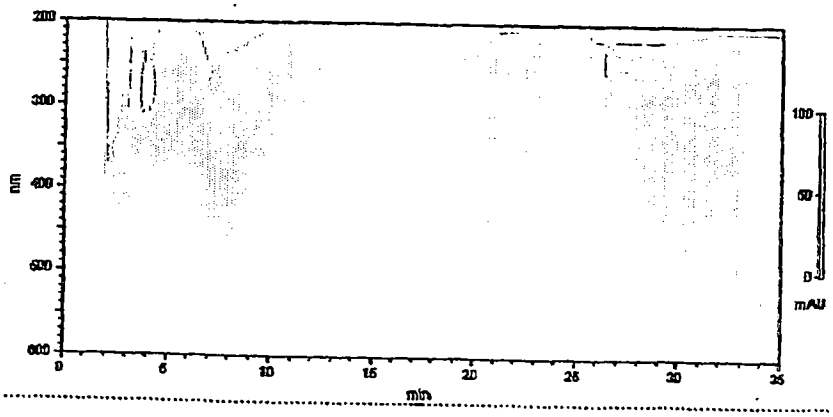
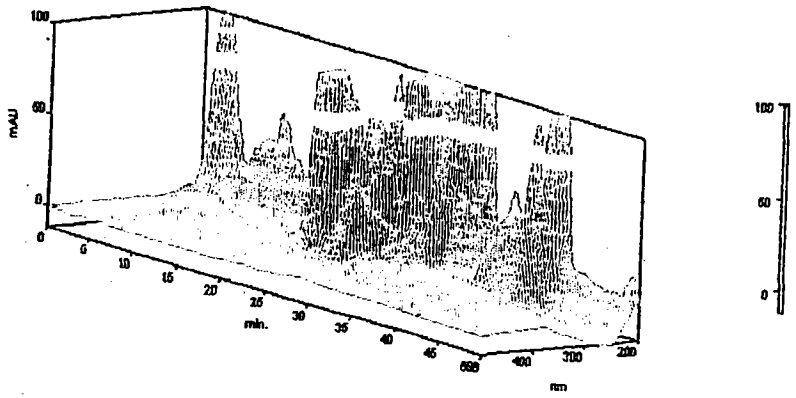


Figure 91


mAU
100
60
0
0
5
10
15
20
25
30
35
40
45
min.
600
500
400
nm
100
60
0

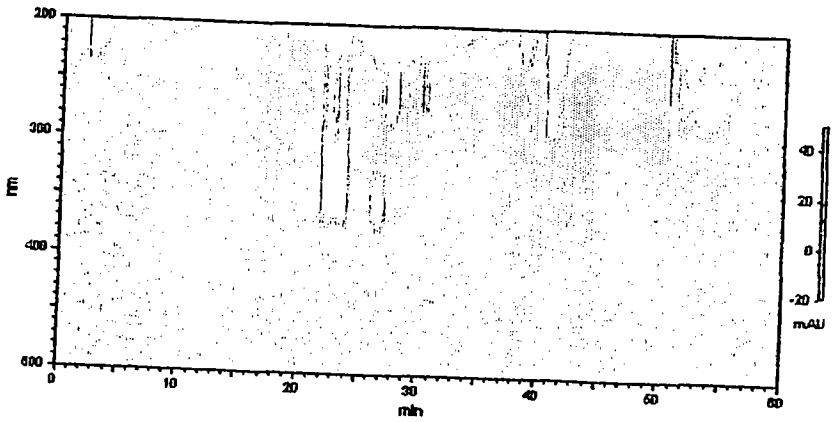
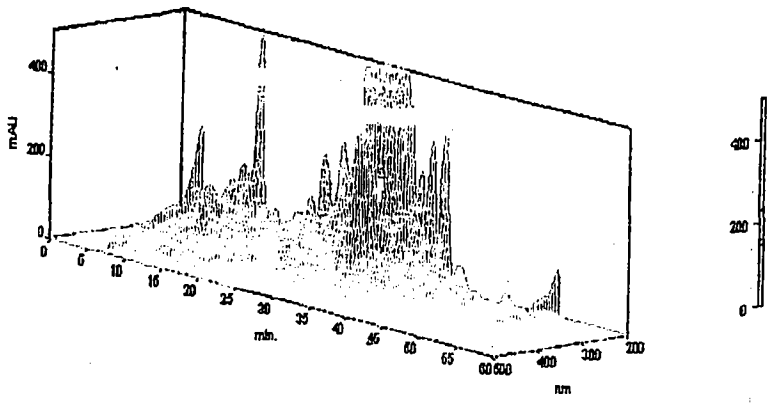

200
300
400
600
nm
0
10
20
30
40
50
60
min
40
20
0
-20
mAU

Figure 92


mAU
400
200
0
0
5
10
15
20
25
30
35
40
45
50
55
60
min.
600
400
300
200
nm
400
200
0

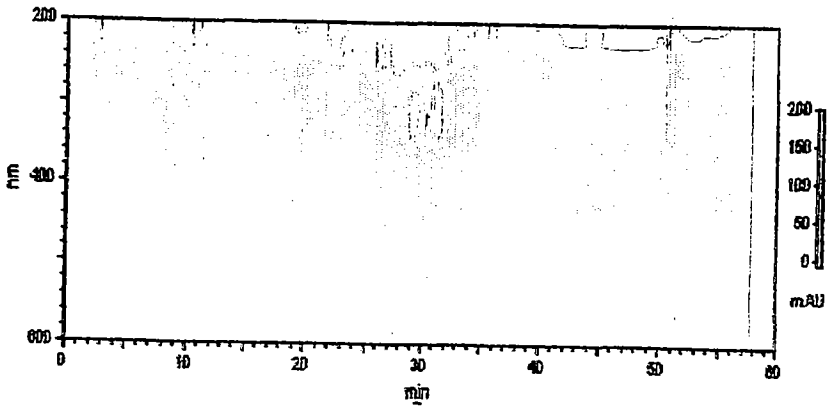
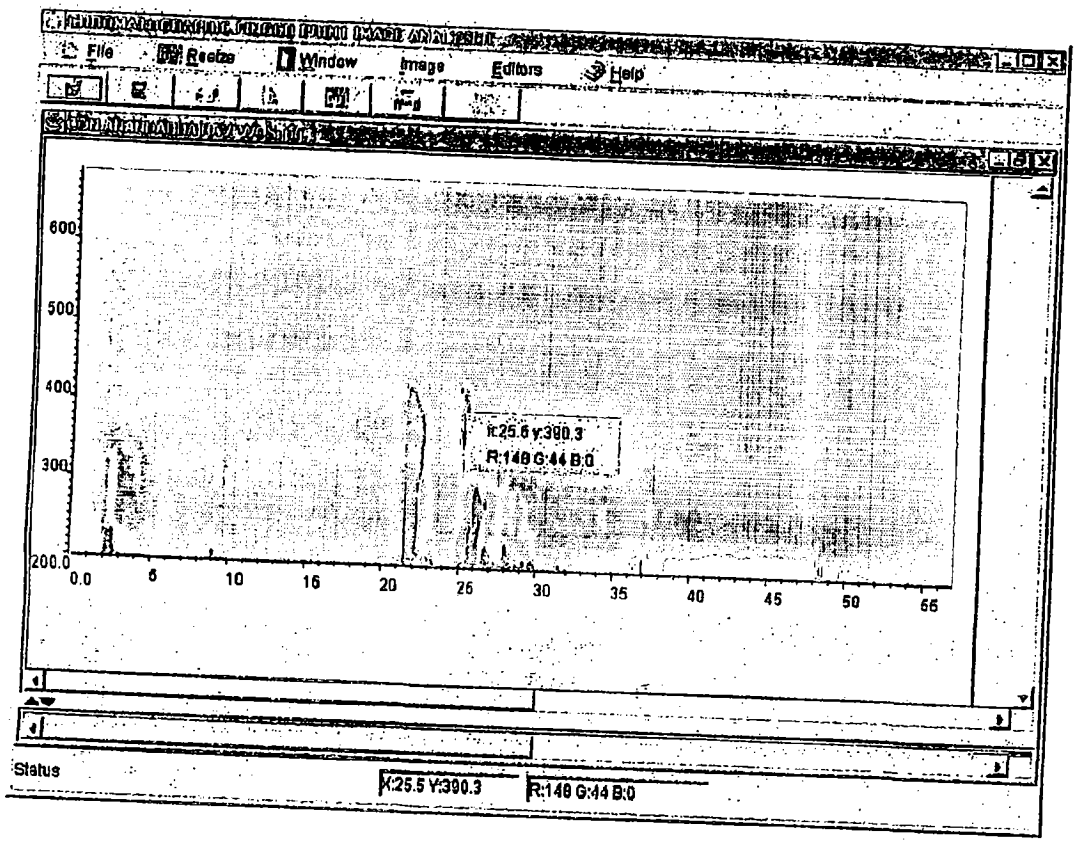

200
nm
400
600
0
10
20
30
40
50
60
min
200
150
100
50
0
mAU

Figure 93

IMAGES WITH BAR CODE VALUES GIVEN BY THE SOFTWARE TO FEED FOR A BAR CODING SOFTWARE

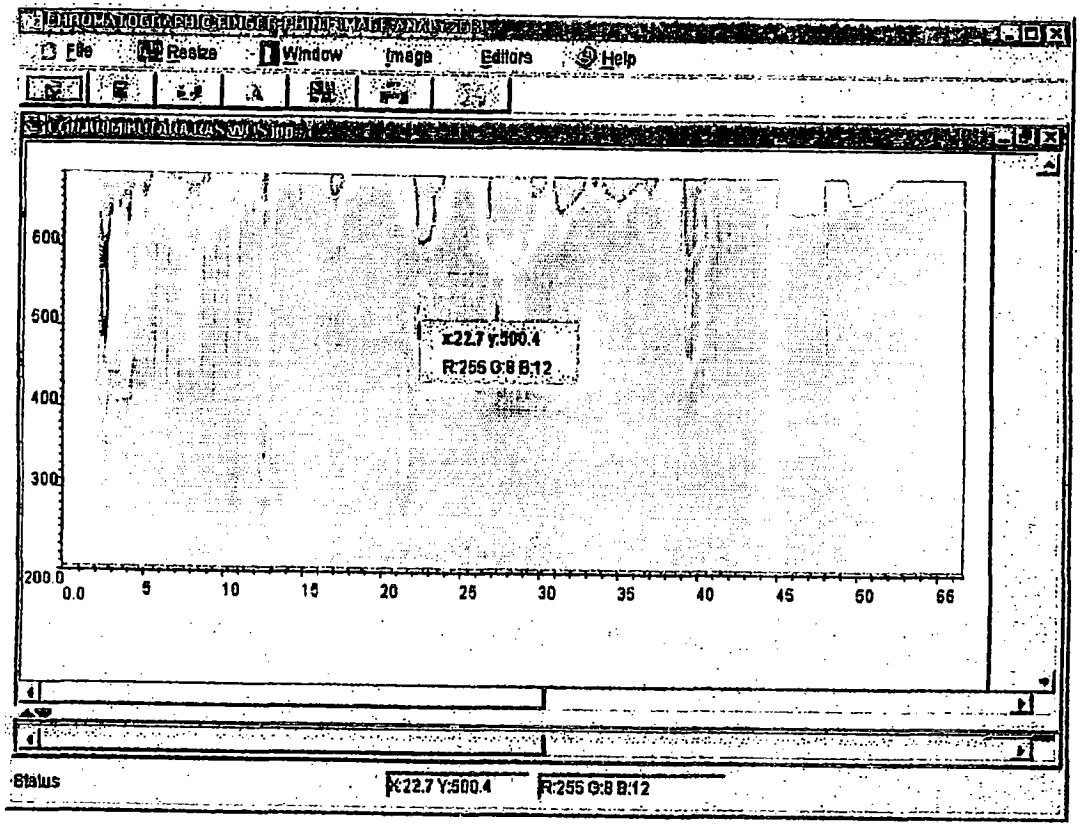


Anandabhairavi Ras

Y right clicking the image software is able to show the coordinates on the box near the peak . The same is shown in down tool bar. These will be exported to barcoding software which generates a barcode for the said values.

Figure 94

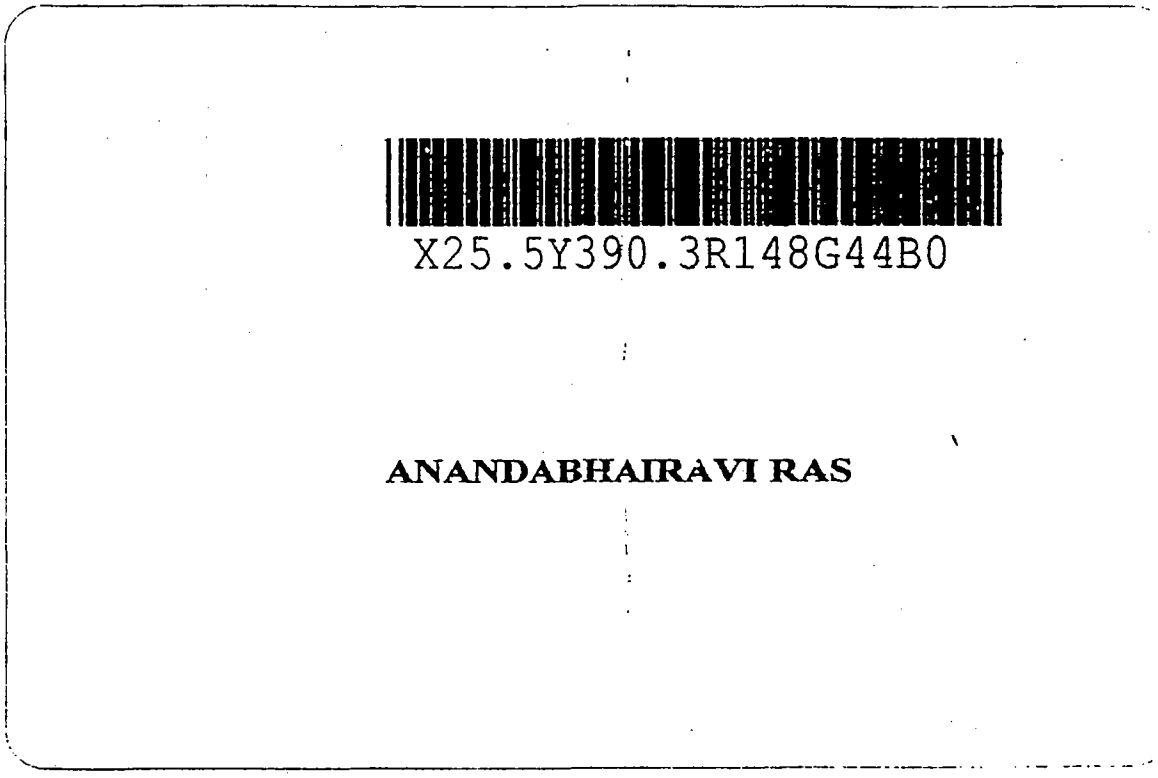
IMAGES WITH BAR CODE VALUES GIVEN BY THE SOFTWARE TO FEED FOR A BAR CODING SOFTWARE



Krimikutara Ras

Same mechanism as explained in Figure 93

Figure 95



Barcode generated for specified coordinates.

Figure 96

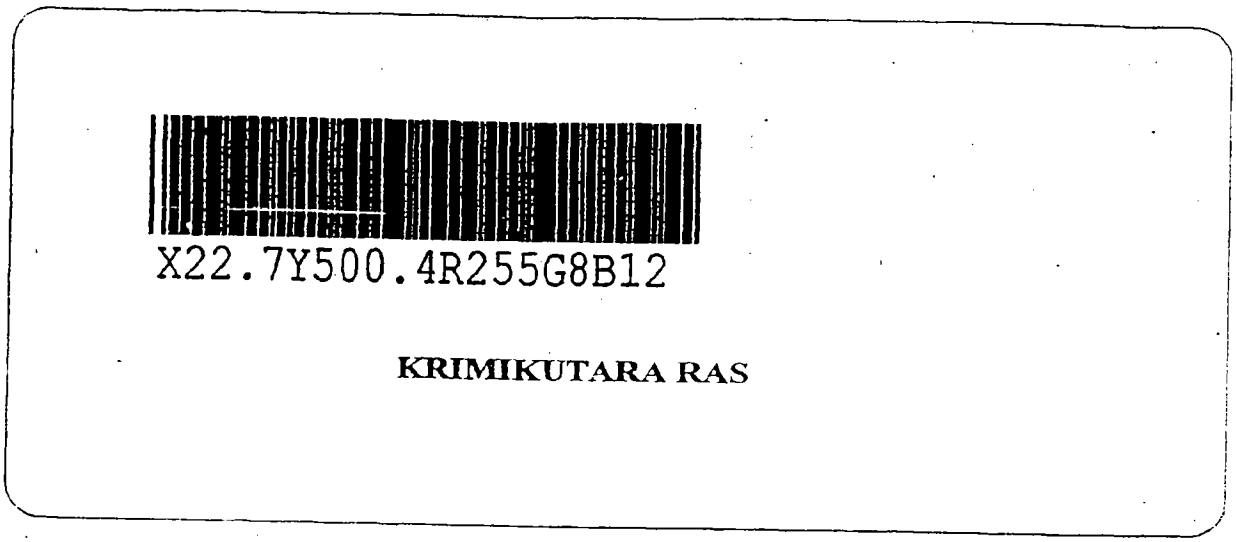
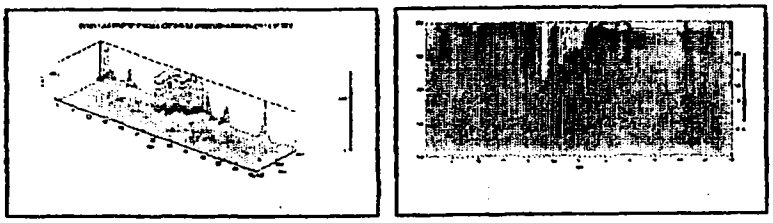


Figure 97

Name of the product: Anandabhairavi Ras
Owner: Industry
Finger prints:



Mfg. Date:
Date of expiry:
Individual constituents:
Batch number:
Lot number:
M.R.P:
Dosage:
Precautions:
For Children:
For pregnant woman:

Barcode:

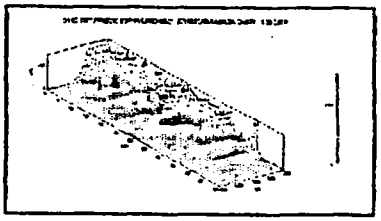


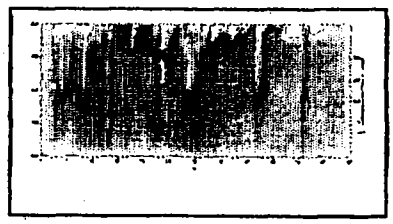
Display Window For Anandabhairavi Ras

Display windows for all the medicines will be done. This becomes a database for ERP CRM application.

Figure 98

Name of the product: Krimikutara Ras
Owner: Industry
Finger prints:





Mfg. Date:
Date of expiry:
Individual constituents:
Batch number:
Lot number:
M.R.P:
Dosage:
Precautions:
For Children:
For pregnant woman:

Barcode:



Display Window For Krimikutara Ras

Figure 99

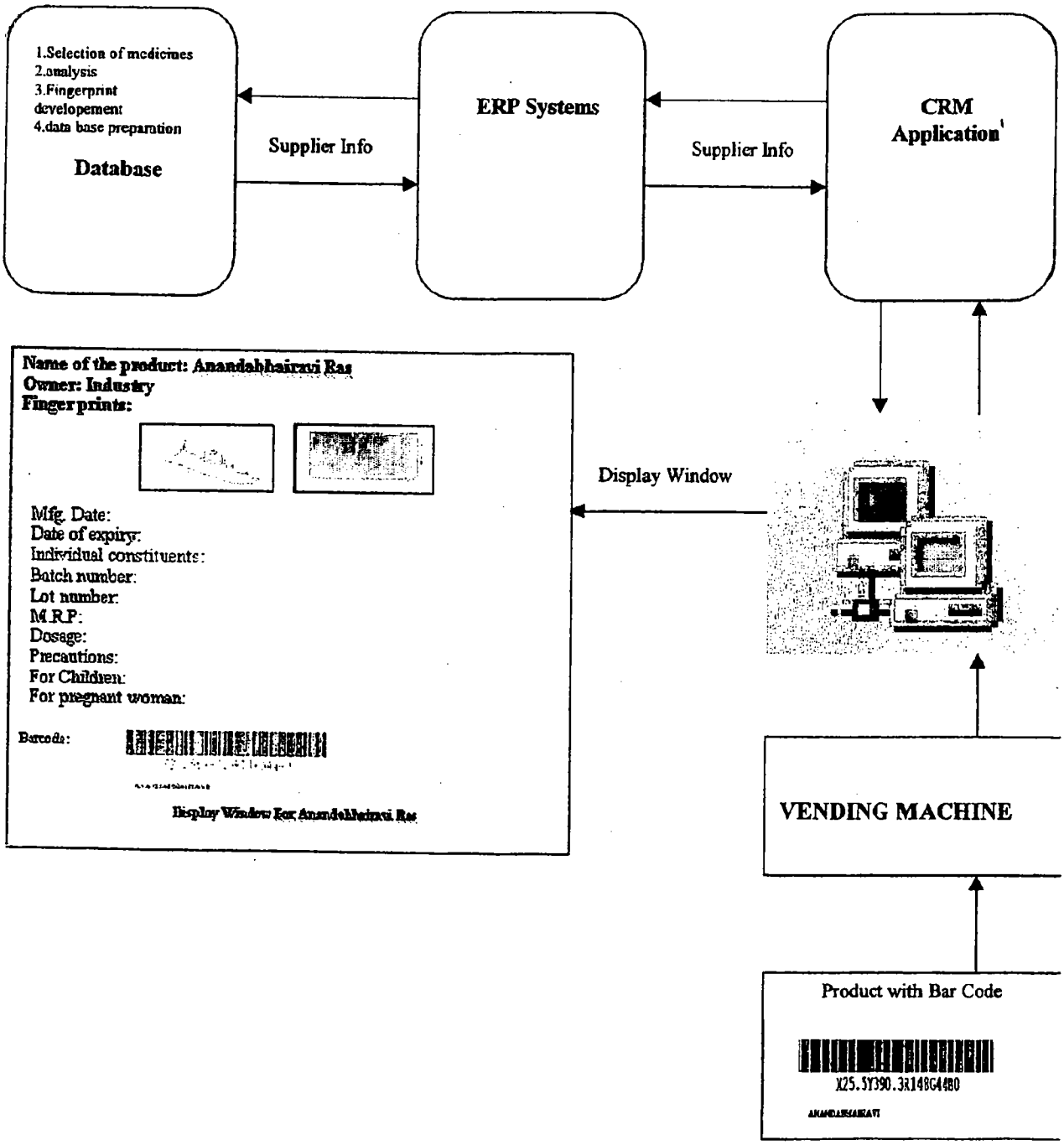
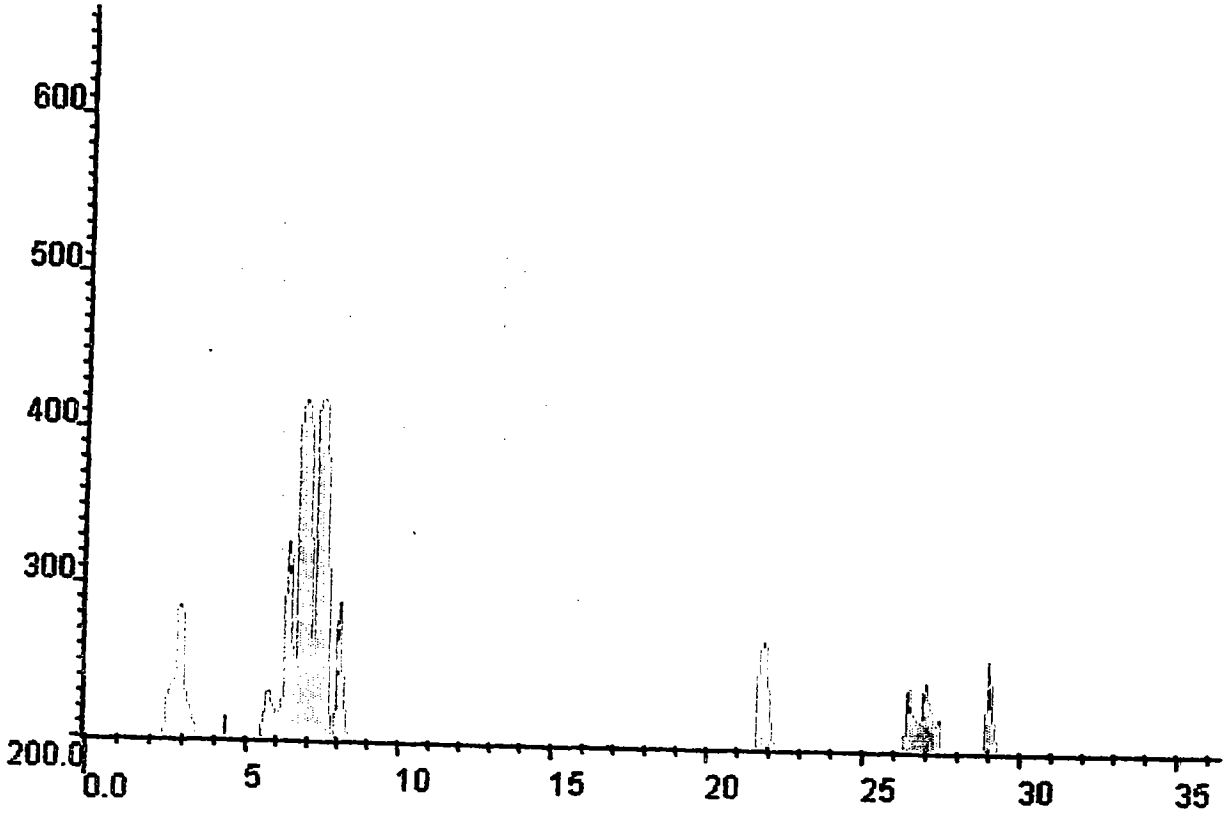


Figure showing the operational mechanism of the ERP and CRM network

Figure 100

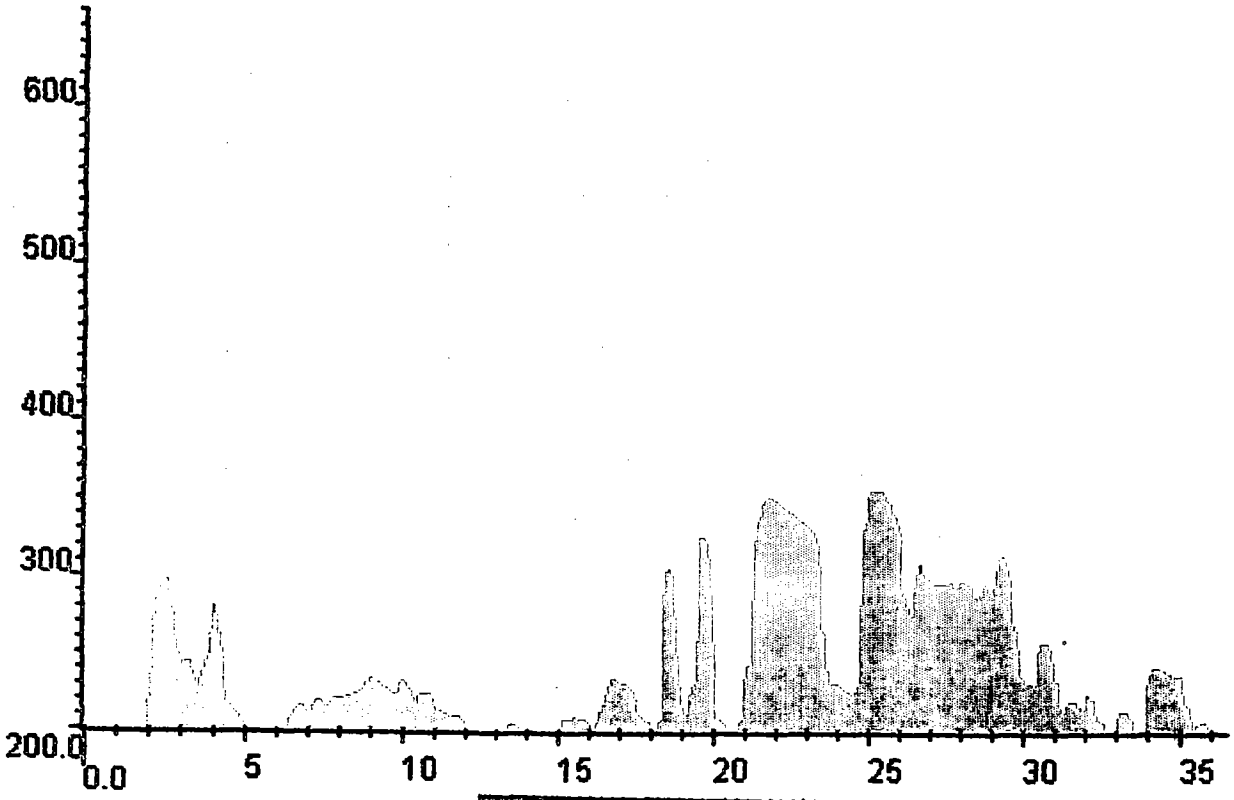


PeakNo	Area Of Pixels
1	271
2	8
3	1818
4	146
5	181
6	213
7	91

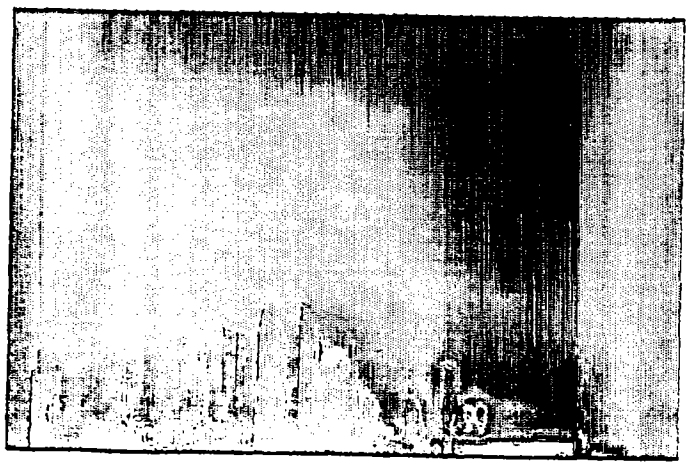


CHROMATOGRAM OF AZARDIRACTA INDICA
(Tender leaves in February)

Figure 101

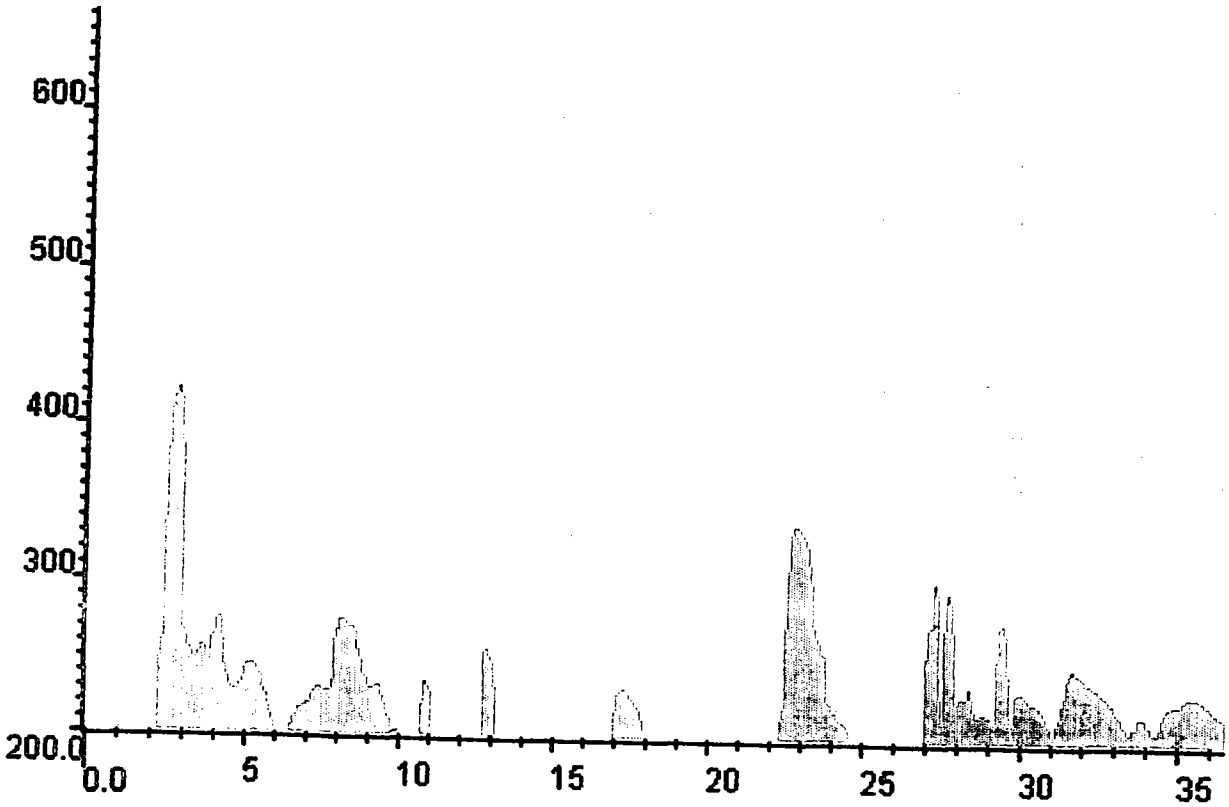


PeakNo	Area Of Pixels
1	1009
2	769
3	7
4	42
5	252
6	829
7	6984
8	35
9	322
10	12
11	405
12	9
13	59
14	106
15	8
16	31

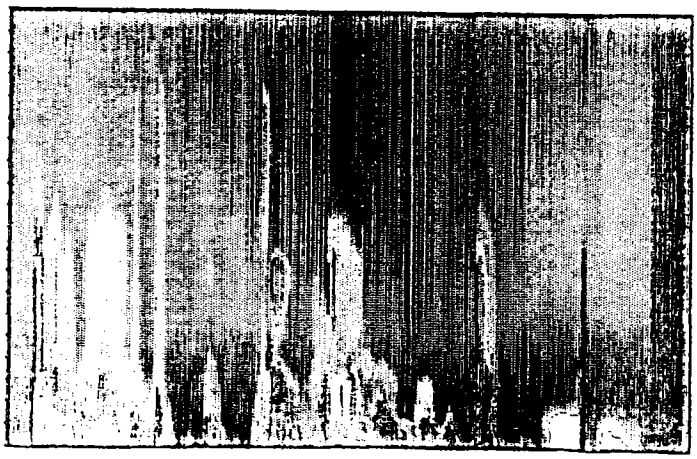


PIE DIAGRAM OF ANANDABHAIRAVI RAS

Figure 102

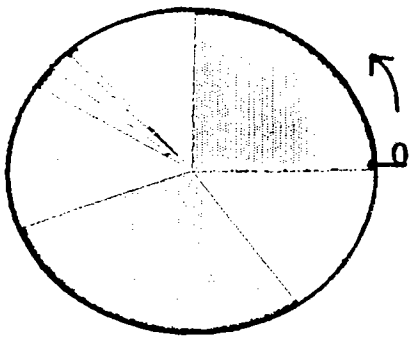


PeakNo	Area Of Pixels
1	1830
2	852
3	69
4	146
5	161
6	1092
7	2166
8	1114
9	37



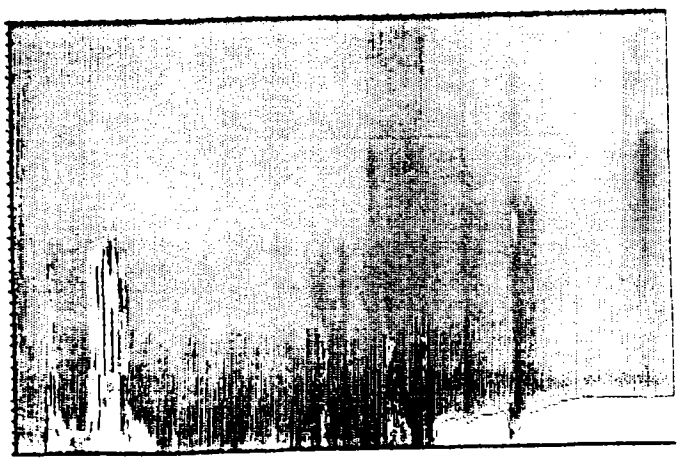
CHROMATOGRAM OF KRIMIKUTARA RAS

Figure 103



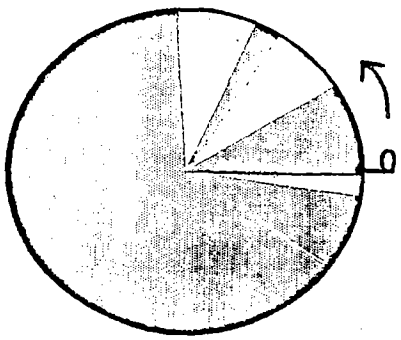
Peak 1	24.507833	%
Peak 2	11.410205	%
Peak 3	0.9240659	%
Peak 4	1.9552698	%
Peak 5	2.1561537	%
Peak 6	14.624347	%
Peak 7	29.007635	%
Peak 8	14.918977	%
Peak 9	0.4955136	%

Percentage of pixels represents the constituents.

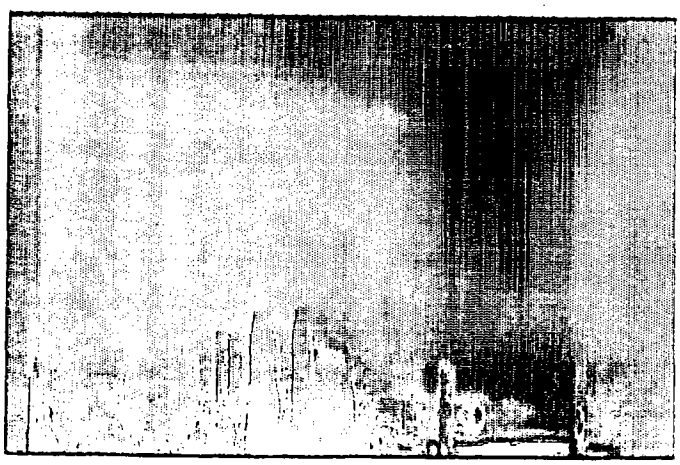


PIE DIAGRAM OF AZARDIRACTA INDICA
(Tender leaves in February)

Figure 104



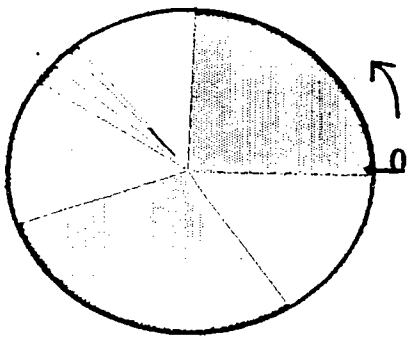
Peak 1	9.27475 %
Peak 2	7.0686646 %
Peak 3	0.06434415 %
Peak 4	0.3860649 %
Peak 5	2.3163893 %
Peak 6	7.620186 %
Peak 7	64.197075 %
Peak 8	0.32172075 %
Peak 9	2.9598308 %
Peak 10	0.11030425 %
Peak 11	3.7227685 %
Peak 12	0.08272819 %
Peak 13	0.54232925 %
Peak 14	0.97435427 %
Peak 15	0.07353617 %
Peak 16	0.28495267 %

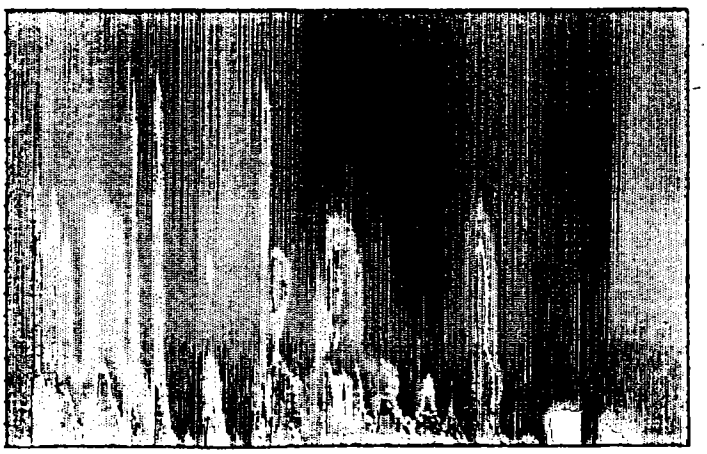


PIE DIAGRAM OF ANANDABHAIRAVI RAS

Figure 105

Peak 1	24.507833	%
Peak 2	11.410205	%
Peak 3	0.9240659	%
Peak 4	1.9552698	%
Peak 5	2.1561537	%
Peak 6	14.624347	%
Peak 7	29.007635	%
Peak 8	14.918977	%
Peak 9	0.4955136	%



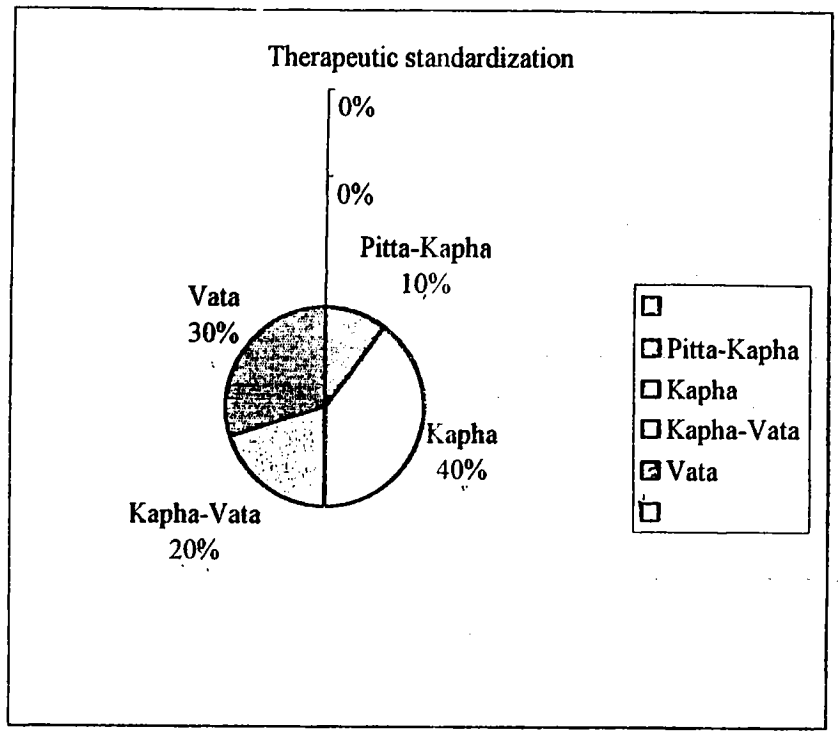


PIE DIAGRAM OF KRIMIKUTARA RAS

Figure 106

Pixel values or percentage values from graphs.

Pitta-Kaph	10
Kapha	40
Kapha-Vat	20
Vata	30



This gives the efficacy of the medicine due to the constituents present in various zones of the fingerprint.

The values of pixels were taken generally and are not for a chromatogram. This figure only shows only how it appears.

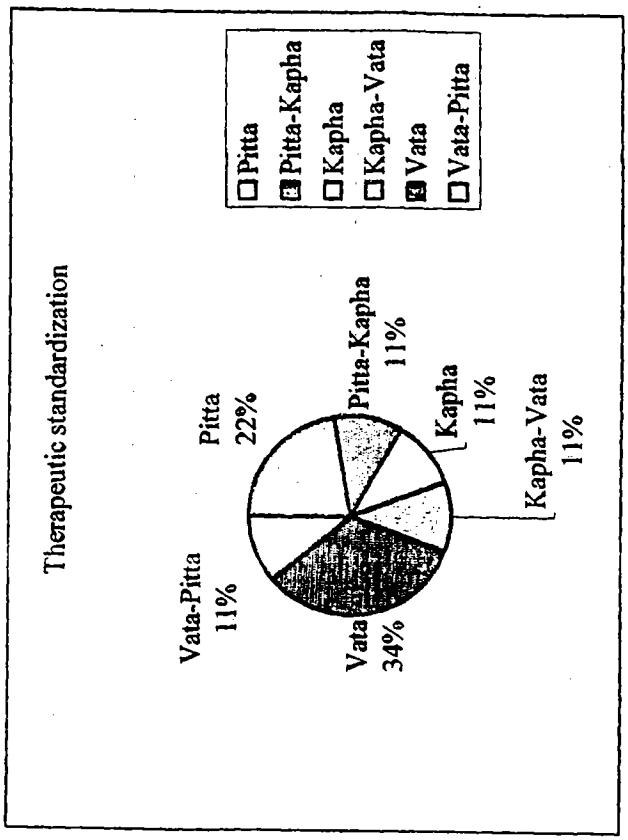


Figure 107

Pitta	23
Pitta-Kapha	11
Kapha	11
Kapha-Vata	11
Vata	34
Vata-Pitta	11

Figure 108

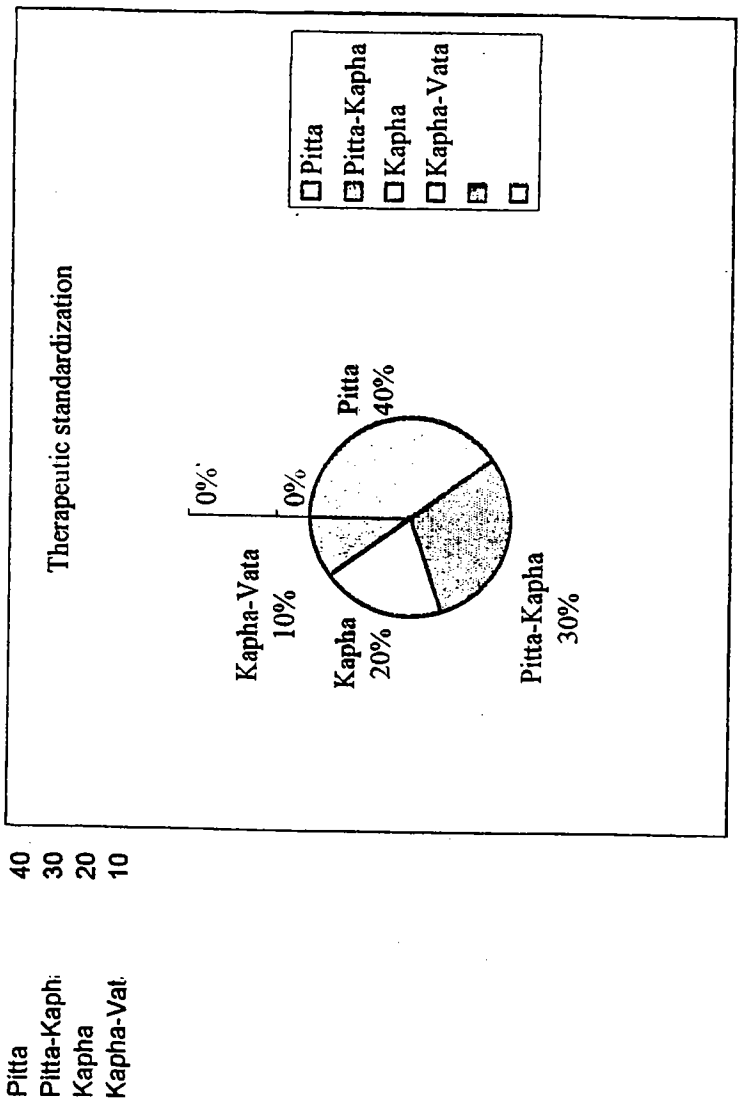
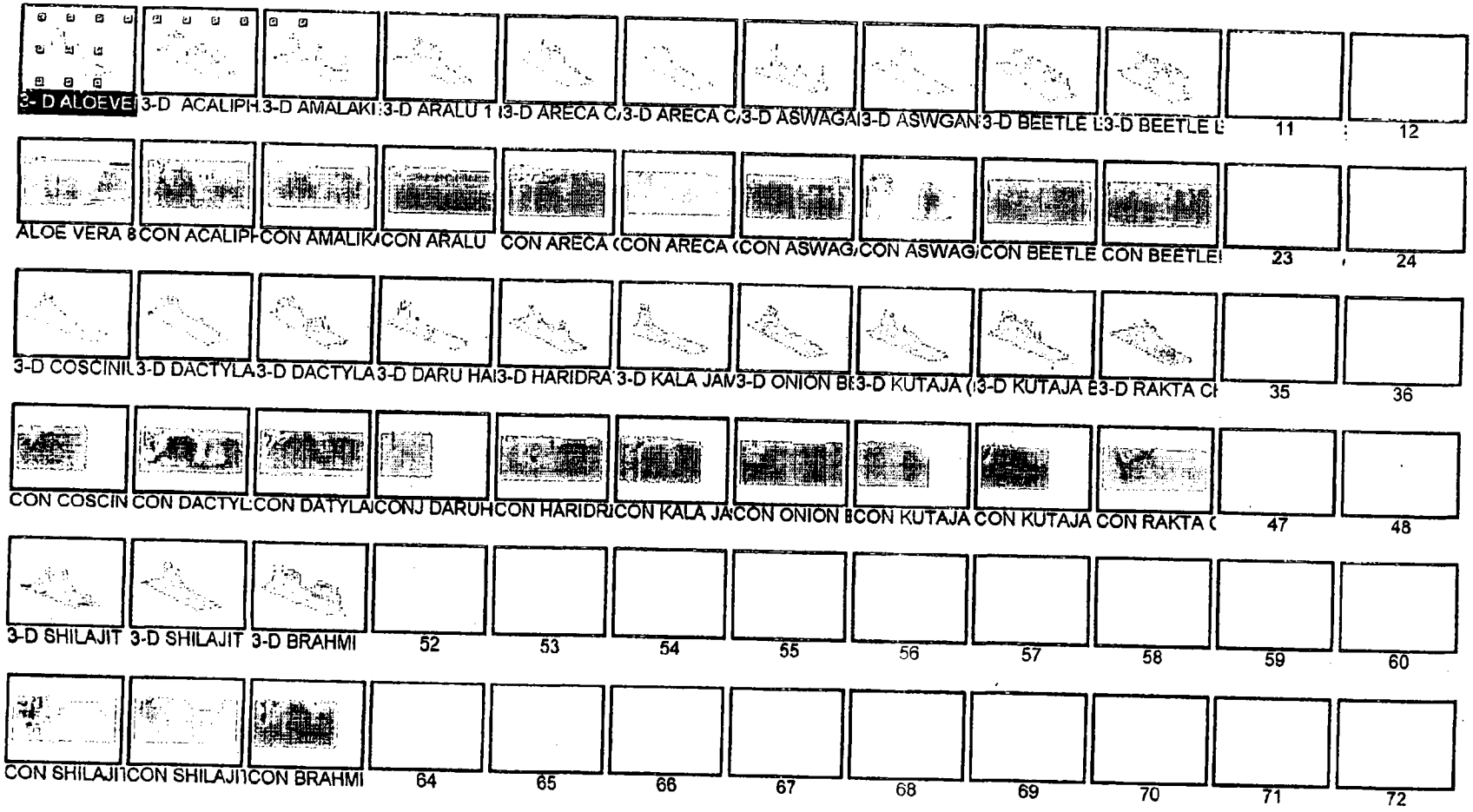

Therapeutic standardization
Pitta
Pitta-Kapha
Kapha
Kapha-Vata
0%
0%
Pitta 40%
Kapha 20%
Kapha-Vata 10%
Pitta-Kapha 30%
40
30
20
10
Pitta
Pitta-Kaph
Kapha
Kapha-Vat

Figure 109

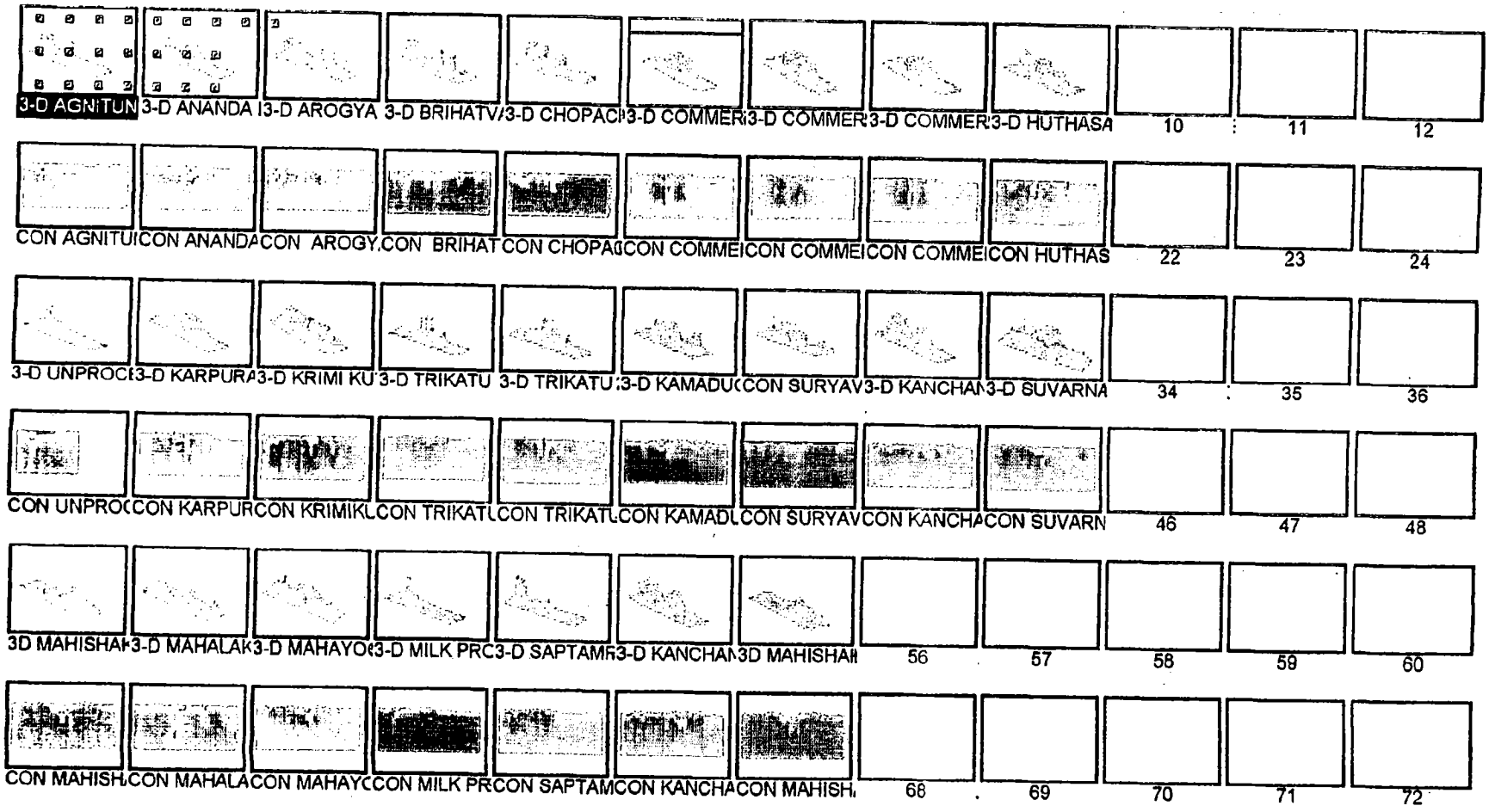


These libraries of 3d and contour images of medicines will be prepared as a database for various ERP and CRM applications. The 3d and Contour chromatograms are given in top and bottom lines.

Databases based on color, taste, odour, therapeutic value, phytochemical parameters can be prepared to understand the therapeutic efficacy of a specific batch/class of medicines.

C:\WINDOWS\DESKTOP\Director files\HERBAL FORMULATIONS

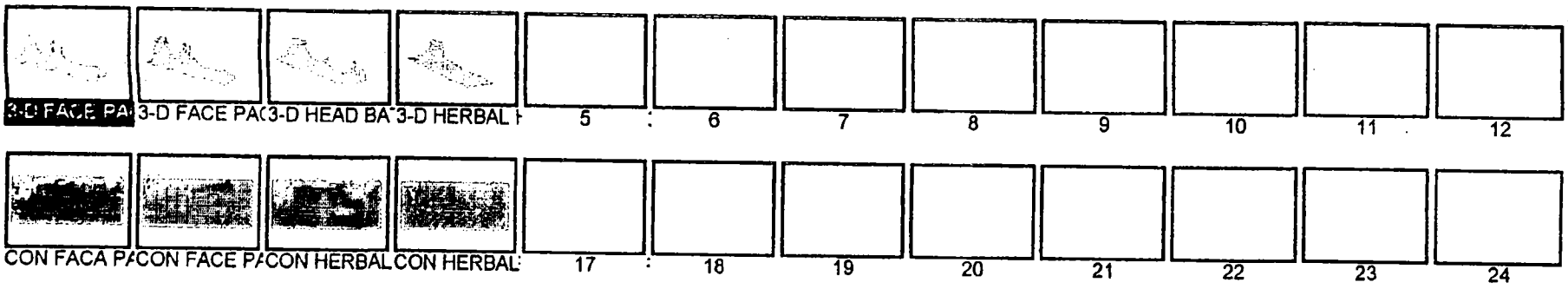
Figure 110



These will help the industry to monitor their product profile for the market and also for proper standarddization to prepare a formulation.

C:\WINDOWS\DESKTOP\Director files\COMMERCIAL SAMPLES

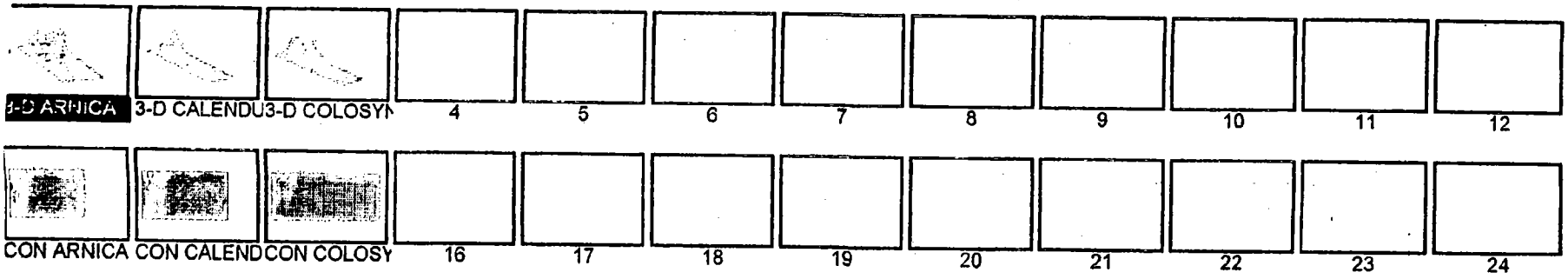
Figure 111



Example for adulterated cosmetic samples.

C:\WINDOWS\DESKTOP\Director files\HOMOEO MEDICINES

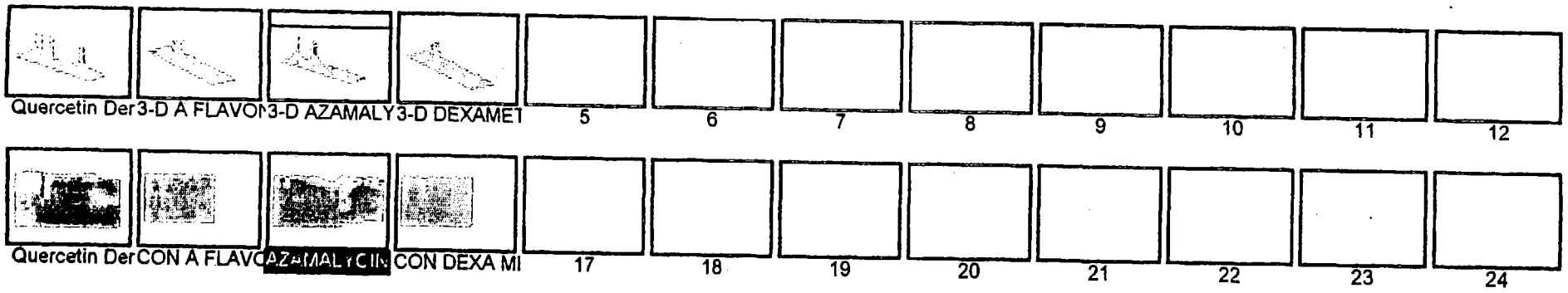
Figure 112



The fingerprint of Mother tincture only were done. They can be done to the level of femto gram level as the PDA detectives are very sensitive. Hence dilution can also be fingerprinted.

C:\WINDOWS\DESKTOP\Director files\ISOLATED COMPOUNDS

Figure 113



This helps to know the purity after isolation and to know the UV spectra of an unknown molecule.

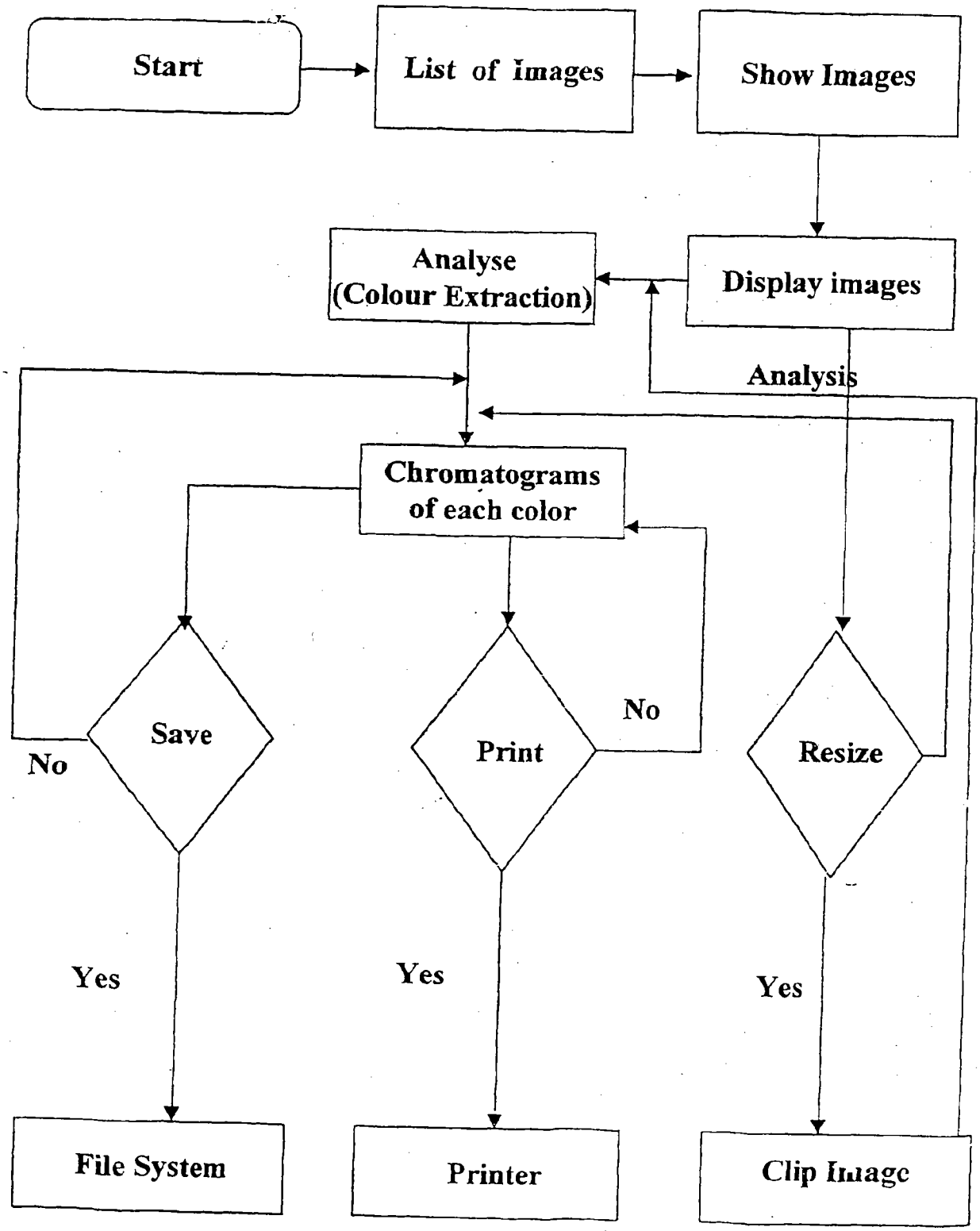
C:\WINDOWS\DESKTOP\Director files\ALLOPATHIC MEDICINES

Figure 114



This method can be used for all allopathic medicinesfor chemical and therapeutic standardization.

FIGURE 115


Start
List of images
Show Images
Analyse (Colour Extraction)
Display images
Analysis
Chromatograms of each color
Save
No
Print
No
Resize
Yes
Yes
Yes
File System
Printer
Clip Image