








Fractions of Venoms from Elapid, Crotalid and Viperid Snakes, Scorpions, Spider, Amphibians

PRODUCT INFORMATION

The **KITOXAN®-V02** Library is a set of **5 plates (96-wells)** containing freeze-dried fractions of venoms from the **following species**:

	<p>CRO-2 (Crotalid snakes) <i>Agkistrodon bilineatus bilineatus, Crotalus basiliscus, Bothrops atrox, Crotalus viridis</i></p>
	<p>CRO-3 (Crotalid snakes) <i>Bothrops neuwiedi neuwiedi, Bothrops colombiensis, Cryptelytrops purpureomaculatus, Cryptelytrops albolabris.</i></p>
	<p>VIP-2 (Viperid snakes) <i>Macrovipera mauritanica, Pseudocerastes persicus persicus, Vipera palestinae, Montivipera xanthina.</i></p>
	<p>SCO-2 (Scorpions) <i>Androctonus australis, Hadogenes troglodytes, Mesobuthus caucasicus, Parabuthus caucasicus.</i></p>
	<p>SCO-3 (Scorpions) <i>Leiurus quinquestriatus quinquestriatus, Buthacus arenicola, Cheloctonus jonesii, Opisththalmus lawrencei.</i></p>

i TECHNICAL INFORMATION

STORAGE

Lyophilised: **+ 4°C**
Solubilized: **For immediate use only.**
Only if needed, solution can be kept at **-20°C**.

HANDLING

Centrifuge before opening the plates.
Recommended centrifugation speed is **1100 g for 10 mn** (3000 rpm with a 110mm rotor radius). Open cautiously (lyophilised content).

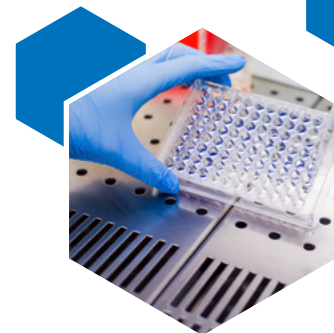
RECONSTITUTION

Solvent : 5 to 10% **DMSO** solution
In cases when DMSO cannot be used, wells shall be diluted in a solution water/acetonitrile with ratio **100/0 to 50/50**.

VENOM FRACTIONATION METHOD

Venoms have been cleared of molecules over **10 kDa**, mostly enzymes, by prior **gel permeation**.

Then each venom has been fragmented in **20 fractions** through HPLC preparative column (cut-offs every 3 min). Location of each fraction is shown on following **plate maps**.

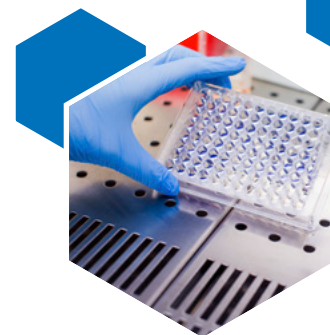


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PLATE MAPS

Plate CRO-2												
	1	2	3	4	5	6	7	8	9	10	11	12
A	✘	AGKBIB	AGKBIB	AGKBIB	AGKBIB	AGKBIB	AGKBIB	AGKBIB	AGKBIB	AGKBIB	AGKBIB	✘
B	✘	AGKBIB	AGKBIB	AGKBIB	AGKBIB	AGKBIB	AGKBIB	AGKBIB	AGKBIB	AGKBIB	AGKBIB	✘
C	✘	CROBAS	CROBAS	CROBAS	CROBAS	CROBAS	CROBAS	CROBAS	CROBAS	CROBAS	CROBAS	✘
D	✘	CROBAS	CROBAS	CROBAS	CROBAS	CROBAS	CROBAS	CROBAS	CROBAS	CROBAS	CROBAS	✘
E	✘	BOTATR	BOTATR	BOTATR	BOTATR	BOTATR	BOTATR	BOTATR	BOTATR	BOTATR	BOTATR	✘
F	✘	BOTATR	BOTATR	BOTATR	BOTATR	BOTATR	BOTATR	BOTATR	BOTATR	BOTATR	BOTATR	✘
G	✘	CROVIR	CROVIR	CROVIR	CROVIR	CROVIR	CROVIR	CROVIR	CROVIR	CROVIR	CROVIR	✘
H	✘	CROVIR	CROVIR	CROVIR	CROVIR	CROVIR	CROVIR	CROVIR	CROVIR	CROVIR	CROVIR	✘

Plate CRO-3												
	1	2	3	4	5	6	7	8	9	10	11	12
A	✘	BOTNEN	BOTNEN	BOTNEN	BOTNEN	BOTNEN	BOTNEN	BOTNEN	BOTNEN	BOTNEN	BOTNEN	✘
B	✘	BOTNEN	BOTNEN	BOTNEN	BOTNEN	BOTNEN	BOTNEN	BOTNEN	BOTNEN	BOTNEN	BOTNEN	✘
C	✘	BOTCOL	BOTCOL	BOTCOL	BOTCOL	BOTCOL	BOTCOL	BOTCOL	BOTCOL	BOTCOL	BOTCOL	✘
D	✘	BOTCOL	BOTCOL	BOTCOL	BOTCOL	BOTCOL	BOTCOL	BOTCOL	BOTCOL	BOTCOL	BOTCOL	✘
E	✘	CRYPUR	CRYPUR	CRYPUR	CRYPUR	CRYPUR	CRYPUR	CRYPUR	CRYPUR	CRYPUR	CRYPUR	✘
F	✘	CRYPUR	CRYPUR	CRYPUR	CRYPUR	CRYPUR	CRYPUR	CRYPUR	CRYPUR	CRYPUR	CRYPUR	✘
G	✘	CRYALB	CRYALB	CRYALB	CRYALB	CRYALB	CRYALB	CRYALB	CRYALB	CRYALB	CRYALB	✘
H	✘	CRYALB	CRYALB	CRYALB	CRYALB	CRYALB	CRYALB	CRYALB	CRYALB	CRYALB	CRYALB	✘

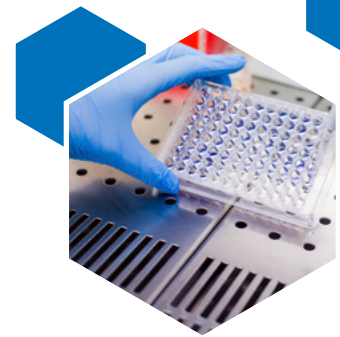


Fractions of Venoms from Elapid, Crotalid and Viperid Snakes, Scorpions, Spider, Amphibians

Plate VIP-2												
	1	2	3	4	5	6	7	8	9	10	11	12
A	×	MACMAU	MACMAU	MACMAU	MACMAU	MACMAU	MACMAU	MACMAU	MACMAU	MACMAU	MACMAU	×
B	×	MACMAU	MACMAU	MACMAU	MACMAU	MACMAU	MACMAU	MACMAU	MACMAU	MACMAU	MACMAU	×
C	×	PSEPEP	PSEPEP	PSEPEP	PSEPEP	PSEPEP	PSEPEP	PSEPEP	PSEPEP	PSEPEP	PSEPEP	×
D	×	PSEPEP	PSEPEP	PSEPEP	PSEPEP	PSEPEP	PSEPEP	PSEPEP	PSEPEP	PSEPEP	PSEPEP	×
E	×	VIPPAL	VIPPAL	VIPPAL	VIPPAL	VIPPAL	VIPPAL	VIPPAL	VIPPAL	VIPPAL	VIPPAL	×
F	×	VIPPAL	VIPPAL	VIPPAL	VIPPAL	VIPPAL	VIPPAL	VIPPAL	VIPPAL	VIPPAL	VIPPAL	×
G	×	MONXAN	MONXAN	MONXAN	MONXAN	MONXAN	MONXAN	MONXAN	MONXAN	MONXAN	MONXAN	×
H	×	MONXAN	MONXAN	MONXAN	MONXAN	MONXAN	MONXAN	MONXAN	MONXAN	MONXAN	MONXAN	×

Plate SCO-2												
	1	2	3	4	5	6	7	8	9	10	11	12
A	×	ANDAUS	ANDAUS	ANDAUS	ANDAUS	ANDAUS	ANDAUS	ANDAUS	ANDAUS	ANDAUS	ANDAUS	×
B	×	ANDAUS	ANDAUS	ANDAUS	ANDAUS	ANDAUS	ANDAUS	ANDAUS	ANDAUS	ANDAUS	ANDAUS	×
C	×	HADTRO	HADTRO	HADTRO	HADTRO	HADTRO	HADTRO	HADTRO	HADTRO	HADTRO	HADTRO	×
D	×	HADTRO	HADTRO	HADTRO	HADTRO	HADTRO	HADTRO	HADTRO	HADTRO	HADTRO	HADTRO	×
E	×	MESCAU	MESCAU	MESCAU	MESCAU	MESCAU	MESCAU	MESCAU	MESCAU	MESCAU	MESCAU	×
F	×	MESCAU	MESCAU	MESCAU	MESCAU	MESCAU	MESCAU	MESCAU	MESCAU	MESCAU	MESCAU	×
G	×	PARRAU	PARRAU	PARRAU	PARRAU	PARRAU	PARRAU	PARRAU	PARRAU	PARRAU	PARRAU	×
H	×	PARRAU	PARRAU	PARRAU	PARRAU	PARRAU	PARRAU	PARRAU	PARRAU	PARRAU	PARRAU	×

Plate SCO-3												
	1	2	3	4	5	6	7	8	9	10	11	12
A	×	LEIQUQ	LEIQUQ	LEIQUQ	LEIQUQ	LEIQUQ	LEIQUQ	LEIQUQ	LEIQUQ	LEIQUQ	LEIQUQ	×
B	×	LEIQUQ	LEIQUQ	LEIQUQ	LEIQUQ	LEIQUQ	LEIQUQ	LEIQUQ	LEIQUQ	LEIQUQ	LEIQUQ	×
C	×	BUTARE	BUTARE	BUTARE	BUTARE	BUTARE	BUTARE	BUTARE	BUTARE	BUTARE	BUTARE	×
D	×	BUTARE	BUTARE	BUTARE	BUTARE	BUTARE	BUTARE	BUTARE	BUTARE	BUTARE	BUTARE	×
E	×	CHEJON	CHEJON	CHEJON	CHEJON	CHEJON	CHEJON	CHEJON	CHEJON	CHEJON	CHEJON	×
F	×	CHEJON	CHEJON	CHEJON	CHEJON	CHEJON	CHEJON	CHEJON	CHEJON	CHEJON	CHEJON	×
G	×	OPI LAW	OPI LAW	OPI LAW	OPI LAW	OPI LAW	OPI LAW	OPI LAW	OPI LAW	OPI LAW	OPI LAW	×
H	×	OPI LAW	OPI LAW	OPI LAW	OPI LAW	OPI LAW	OPI LAW	OPI LAW	OPI LAW	OPI LAW	OPI LAW	×



Fractions of Venoms from Elapid, Crotalid
and Viperid Snakes, Scorpions, Spider, Amphibians

CERTIFICATE OF ANALYSIS

CoA based on pure venom chromatograms performed by HPLC analysis
at wave length 214 nm.

See venom chromatograms on the following pages (Annexes)

VENOM SOURCING

All venoms used for KITOXAN fractions come from animals kept in our facilities or safely
captured, milked and released alive in the wild.

Our facilities are duly controlled by French veterinary authorities and received
an official operating license.

KITOXAN venom fractions are not concerned with CITES regulations.

PRODUCT ID

Name : KITOXAN-V02

Code : L5902

Plates : L5202 CRO-2 Plate, L5203 CRO-3 Plate, L5102 VIP-2 Plate,
L5602 SCO-2 Plate, L5603 SCO-3 Plate

PRODUCT INTENDED FOR RESEARCH USE ONLY

FOR MORE INFORMATION PLEASE CONTACT



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LABORATORY
Natural Active Ingredients

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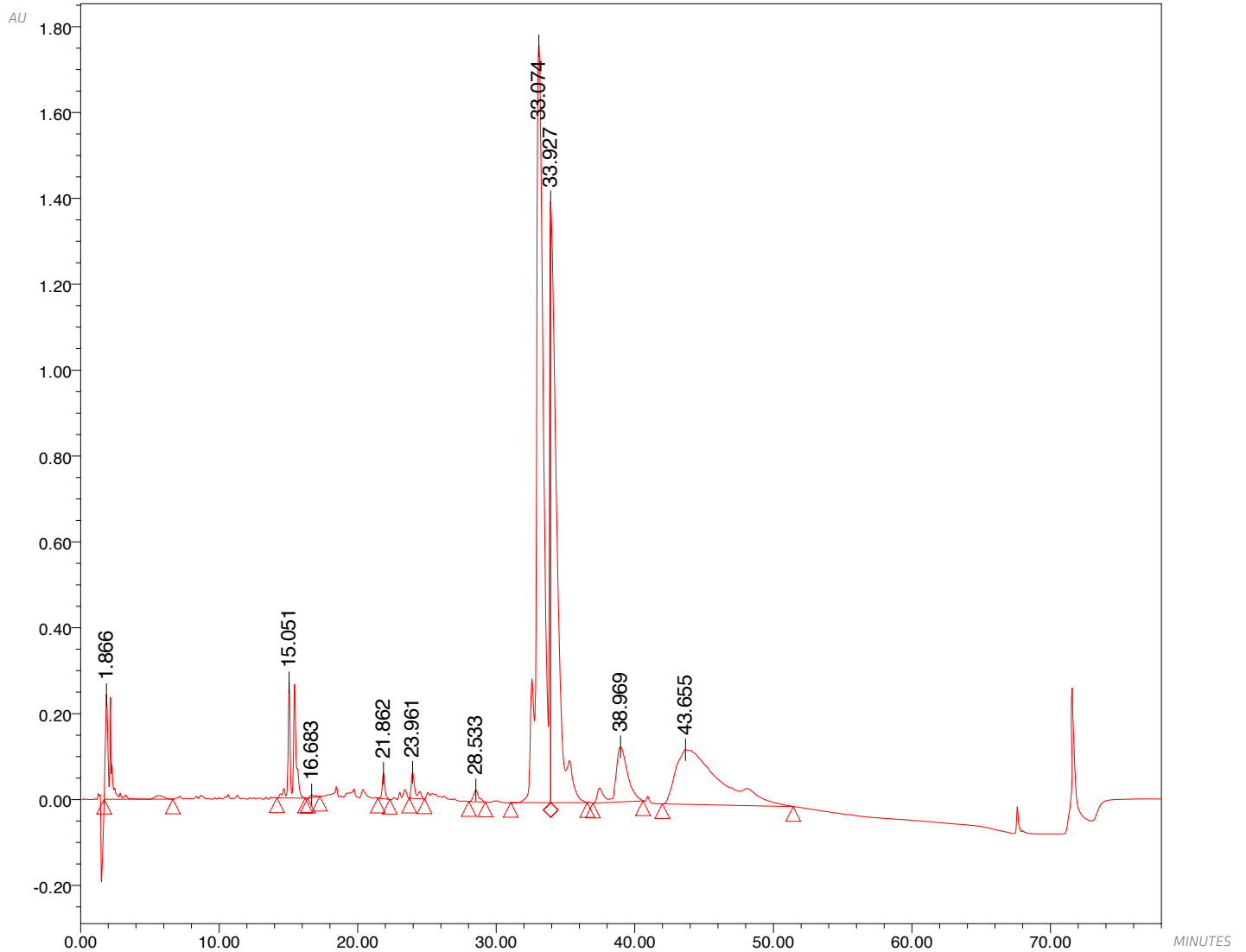
Fax: **+33 475 419 199**

Contact us: **latoxan@latoxan.com**

Follow us on: **www.latoxan.net**

CERTIFICATE OF ANALYSIS

Venom: *Agkistrodon bilineatus bilineatus*
 Batch: 423.070



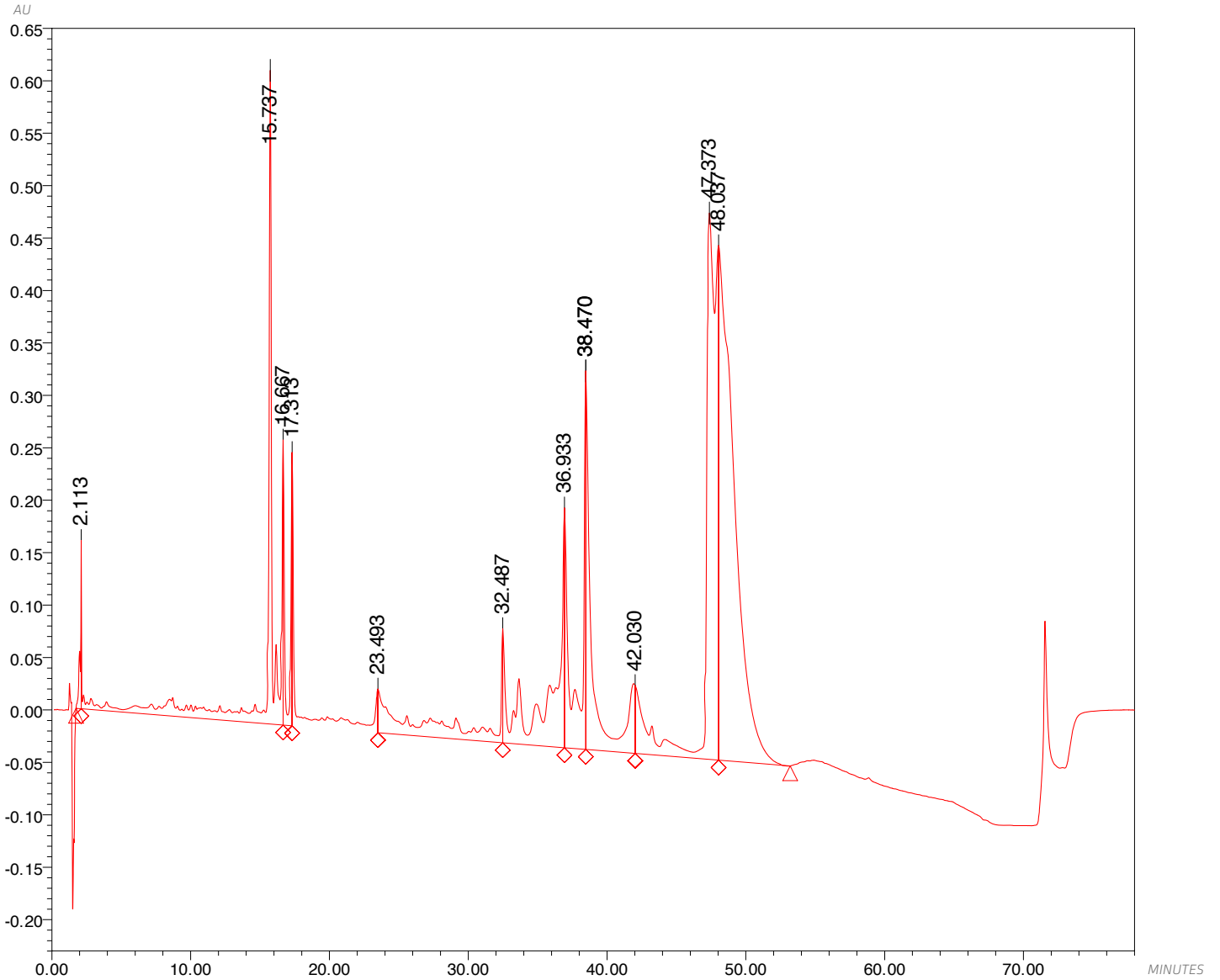
— AL_LC_CROPS3316 423.070; Vial 25; Injection 1; Channel 2998 Ch1 214nm@1.2nm; Date Acquired 26/11/2010 18:49:58 GMT

PEAK RESULTS

	VIAL	RETENTION TIME (MIN.)	AREA	HEIGHT	% AREA	% HEIGHT
01	25	1.866	5425712	244009	3.33	5.97
02	25	15.051	6203247	269784	3.81	6.60
03	25	16.683	151886	5942	0.09	0.15
04	25	21.862	790324	59645	0.49	1.46
05	25	23.961	1237128	60903	0.76	1.49
06	25	28.533	703444	28064	0.43	0.69
07	25	33.074	69424871	1762868	42.64	43.14
08	25	33.927	42348602	1399330	26.01	34.24
09	25	38.969	8320032	128207	5.11	3.14
10	25	43.655	28200488	127508	17.32	3.12

CERTIFICATE OF ANALYSIS

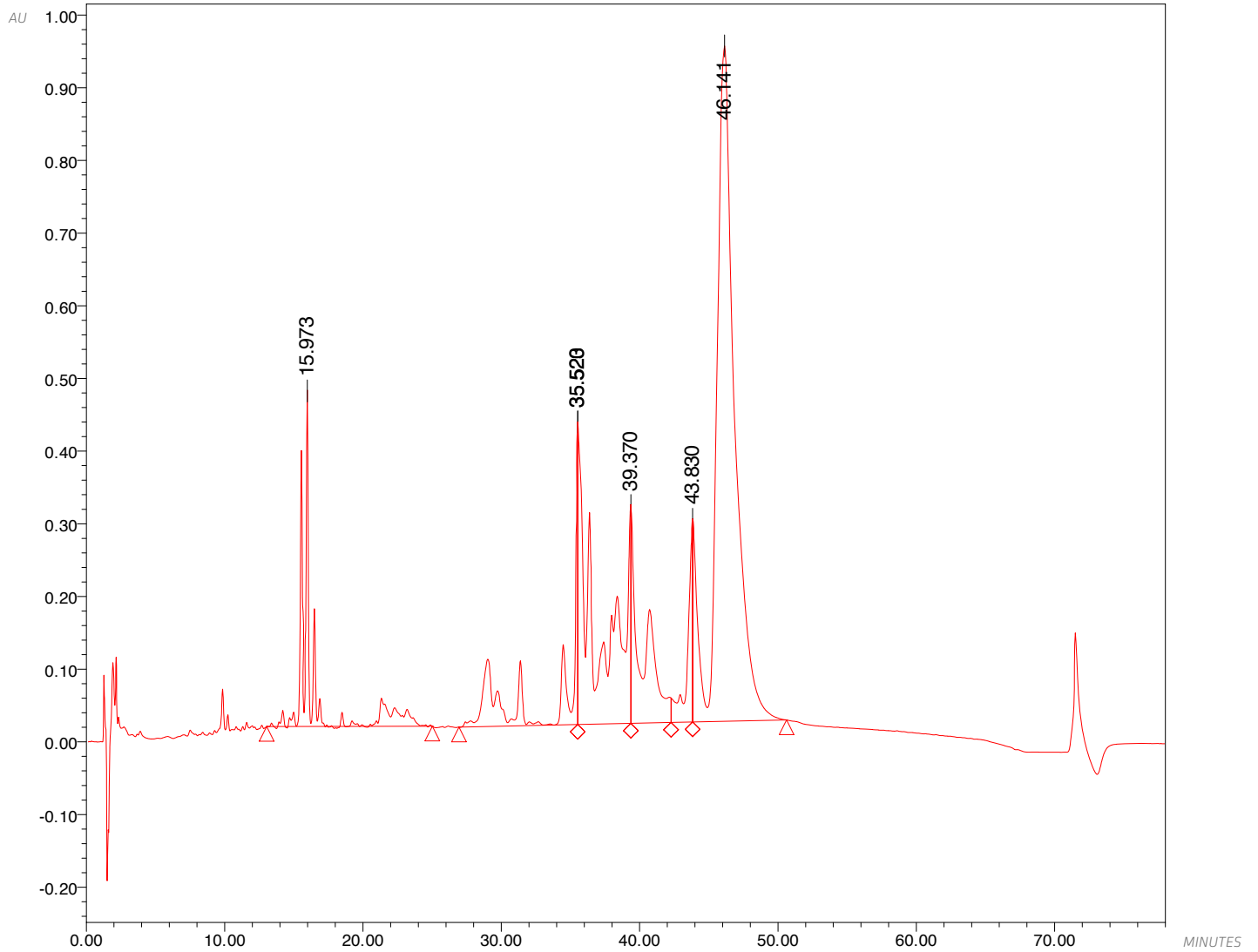
Venom: *Crotalus basiliscus*
Batch: 707.060



— AL_LC_CROPS3238 707.060; Vial 47; Injection 1; Channel 2998 Ch1 214nm@1.2nm; Date Acquired 16/11/2010 22:33:14 GMT

PEAK RESULTS

	VIAL	RETENTION TIME (MIN.)	AREA	HEIGHT	% AREA	% HEIGHT
01	47	2.113	692196	160384	0.55	4.59
02	47	15.737	15680145	623323	12.57	17.84
03	47	16.667	3030862	271745	2.43	7.78
04	47	17.313	52093	260485	0.04	7.46
05	47	23.493	8296	41483	0.01	1.19
06	47	32.487	7482615	108767	6.00	3.11
07	47	36.933	11197833	228663	8.97	6.55
08	47	38.470	7982587	360943	6.40	10.33
09	47	38.470	10803049	360943	8.66	10.33
10	47	42.030	12929	64684	0.01	1.85
11	47	47.373	29490517	521034	23.63	14.92
12	47	48.037	38354935	490626	30.74	14.05

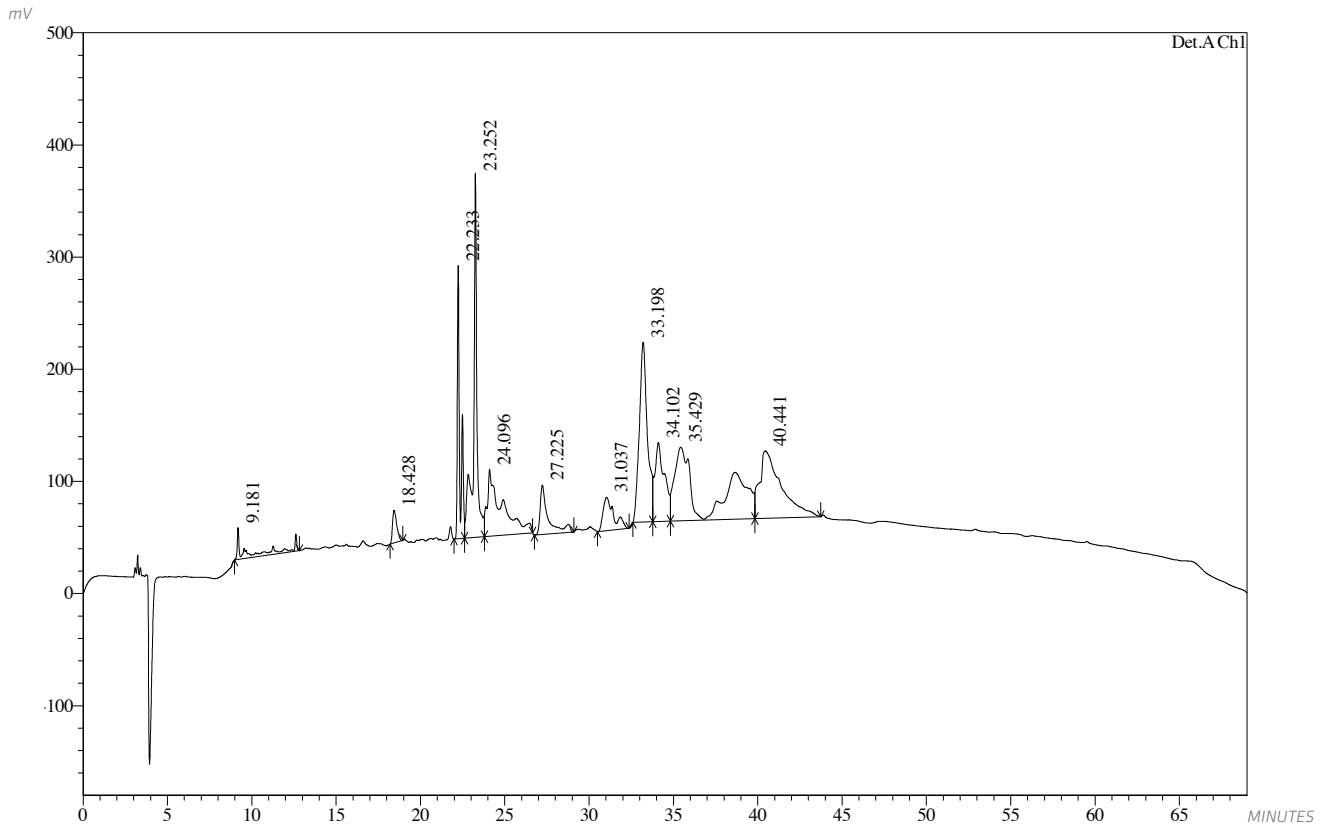


— AL_LC_CROPS3361 021.050; Vial 53; Injection 1; Channel 2998 Ch1 214nm@1.2nm; Date Acquired 02/12/2010 05:11:27 GMT

PEAK RESULTS

	VIAL	RETENTION TIME (MIN.)	AREA	HEIGHT	% AREA	% HEIGHT
01	53	15.973	15479653	462934	8.94	16.50
02	53	35.520	14610954	416489	8.44	14.85
03	53	35.523	34090809	416389	19.69	14.84
04	53	39.370	15458083	300666	8.93	10.72
05	53	43.830	6642235	279565	3.84	9.97
06	53	46.141	86843587	929270	50.16	33.13

CHROMATOGRAM



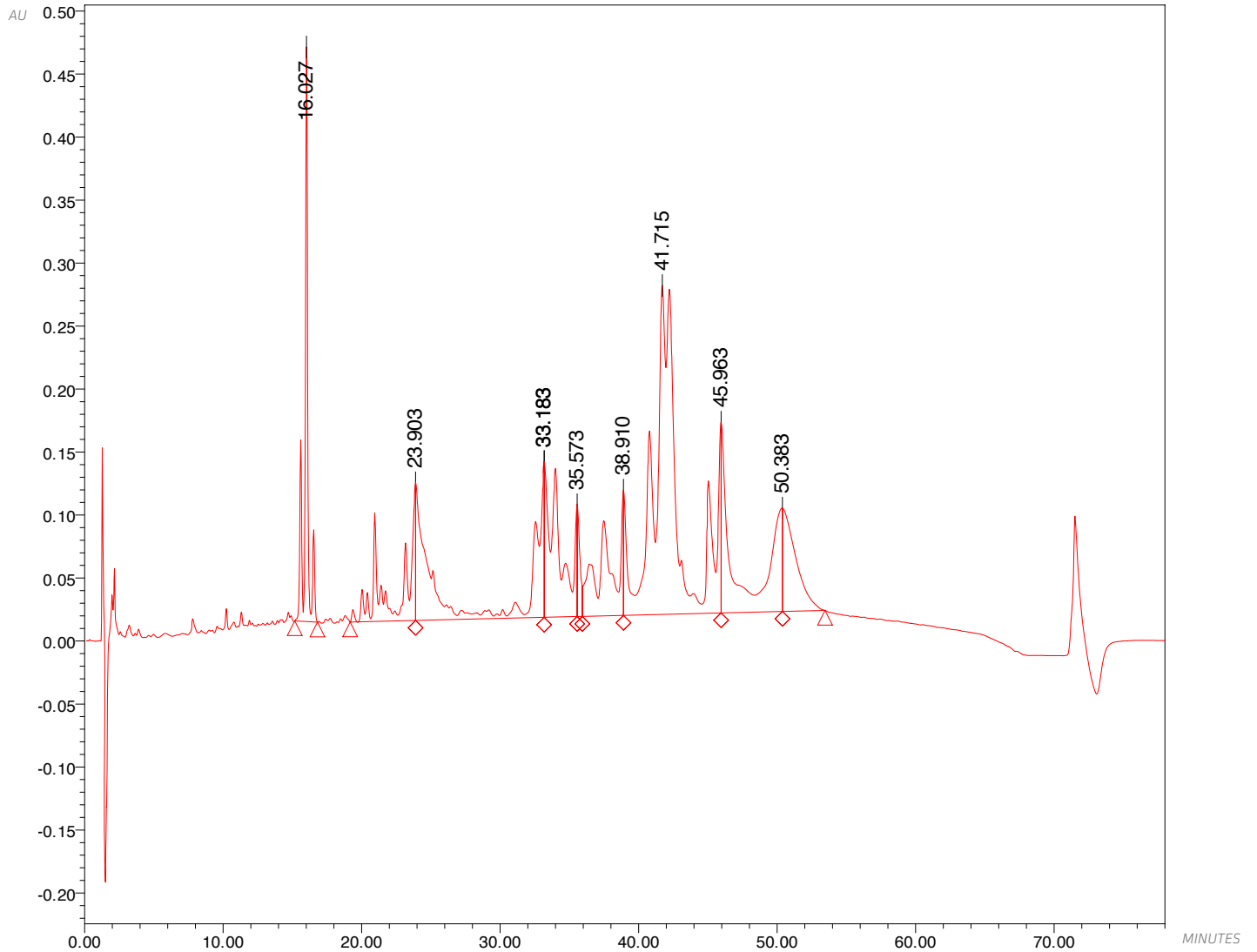
1 Det.A Ch1 / 214nm

501.050.lcd; Vial 98; Ch1: 214 nm; 09/08/2012 01:46:54
(HPLC Column : LichroCART 250-4 PurospherSTAR RP-18 (5µm) Column n°: 151172)

PEAK TABLE

Detector A Ch1 214nm

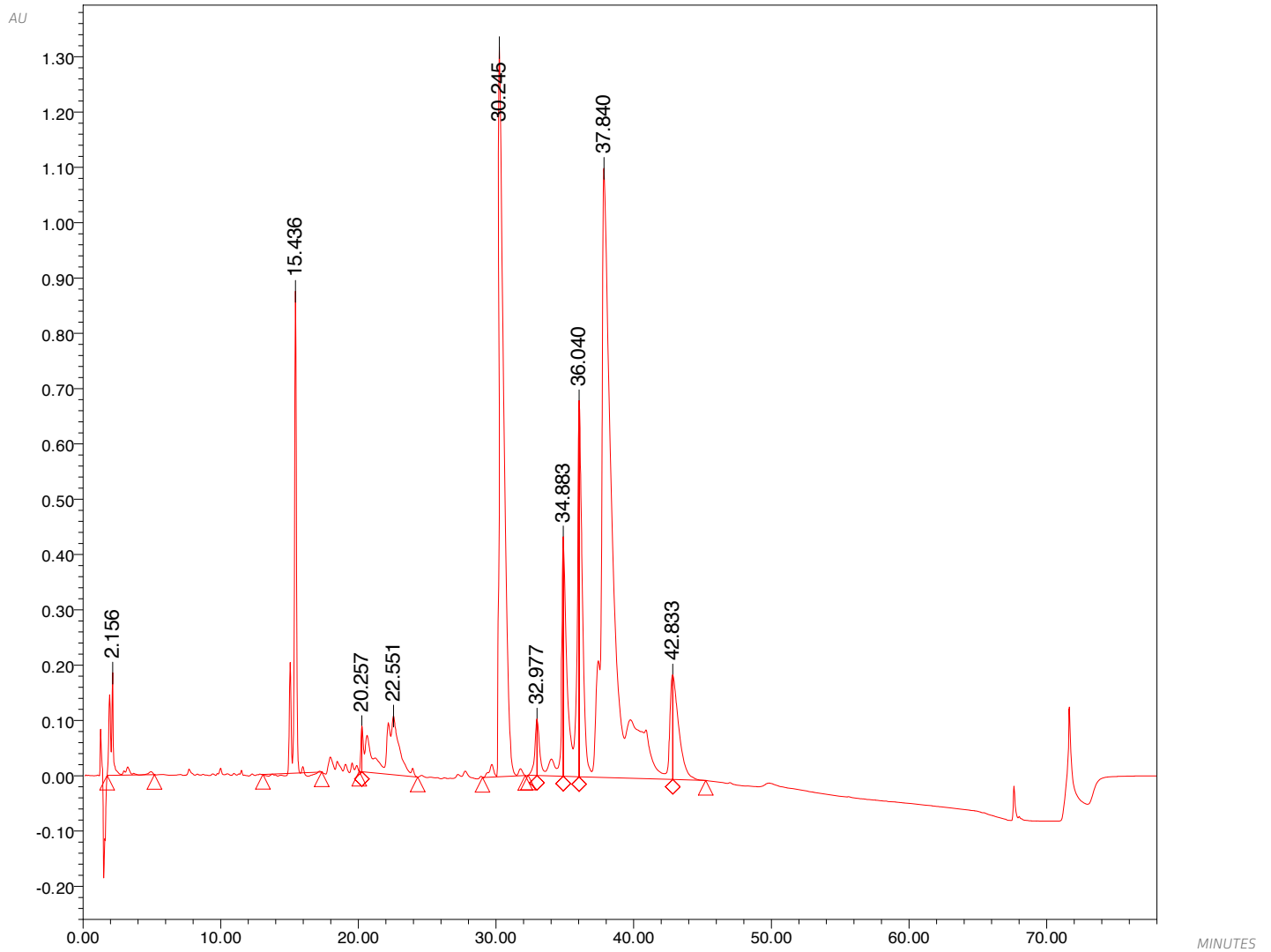
VIAL	RETENTION TIME (MIN.)	AREA	HEIGHT	% AREA	% HEIGHT
1	9.181	882109	28547	2.416	2.558
2	18.428	510588	29169	1.399	2.613
3	22.233	2570339	243519	7.041	21.818
4	23.252	4646731	324888	12.729	29.108
5	24.096	3576094	59615	9.796	5.341
6	27.225	1433905	44037	3.928	3.945
7	31.037	1299176	29708	3.559	2.662
8	33.198	5311017	160313	14.549	14.363
9	34.102	2835339	70487	7.767	6.315
10	35.429	7998963	65737	21.912	5.890
11	40.441	5440254	60129	14.903	5.387
Total		36504513	1116149	100.000	100.000



— AL_LC_CROPS3358 215.010; Vial 50; Injection 1; Channel 2998 Ch1 214nm@1.2nm; Date Acquired 02/12/2010 01:12:48 GMT

PEAK RESULTS

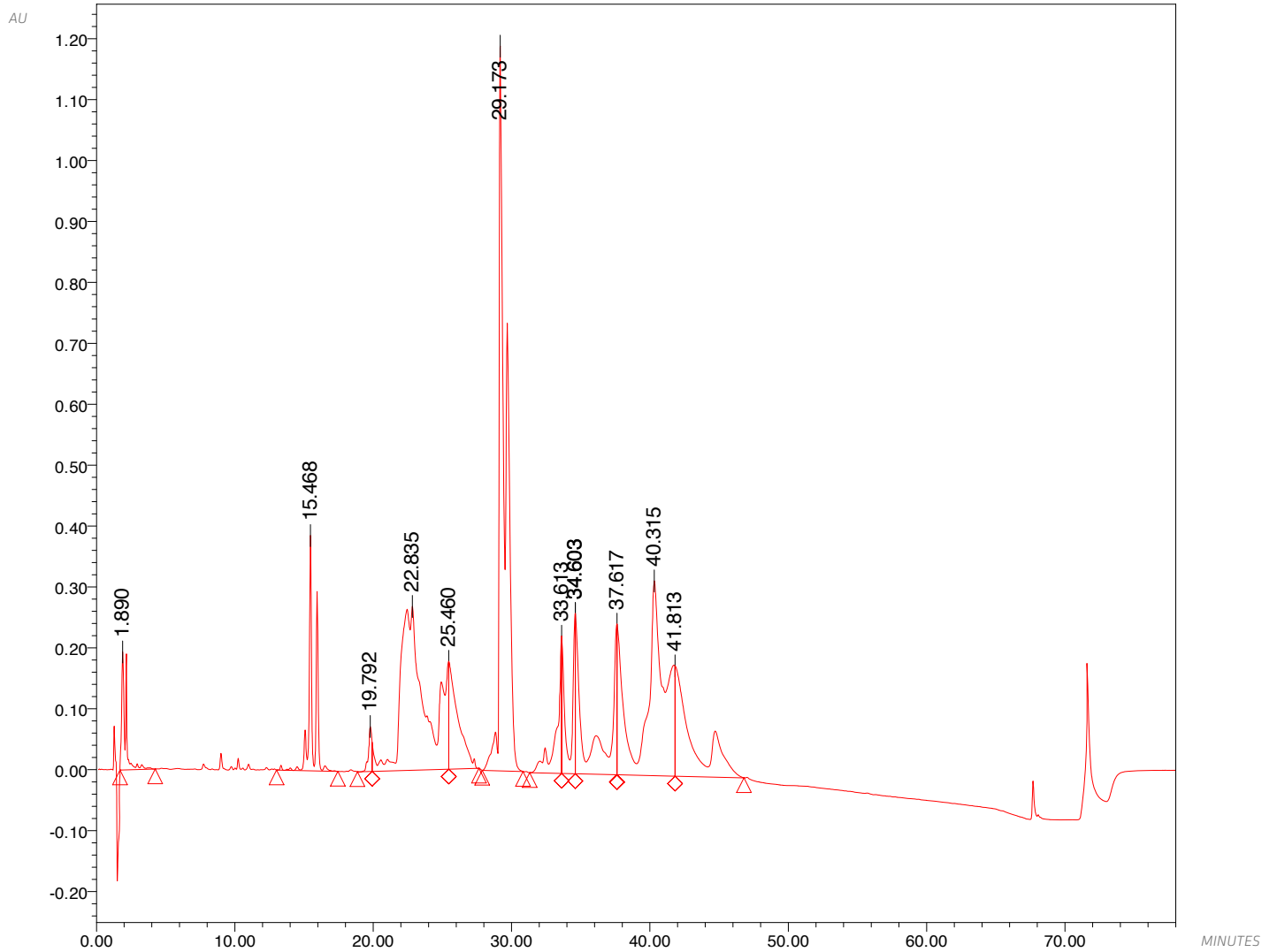
	VIAL	RETENTION TIME (MIN.)	AREA	HEIGHT	% AREA	% HEIGHT
01	50	16.027	6749392	456155	7.76	30.50
02	50	23.903	5860433	109270	6.74	7.31
03	50	33.183	11269057	123604	12.96	8.26
04	50	33.183	8449517	123604	9.72	8.26
05	50	35.573	1157824	89073	1.33	5.96
06	50	38.910	6719099	99382	7.73	6.64
07	50	41.715	31073124	261098	35.74	17.46
08	50	45.963	10157788	151411	11.68	10.12
09	50	50.383	5512752	82073	6.34	5.49



— AL_LC_CROPS3318 922.160; Vial 27; Injection 1; Channel 2998 Ch1 214nm@1.2nm; Date Acquired 26/11/2010 21:29:05 GMT

PEAK RESULTS

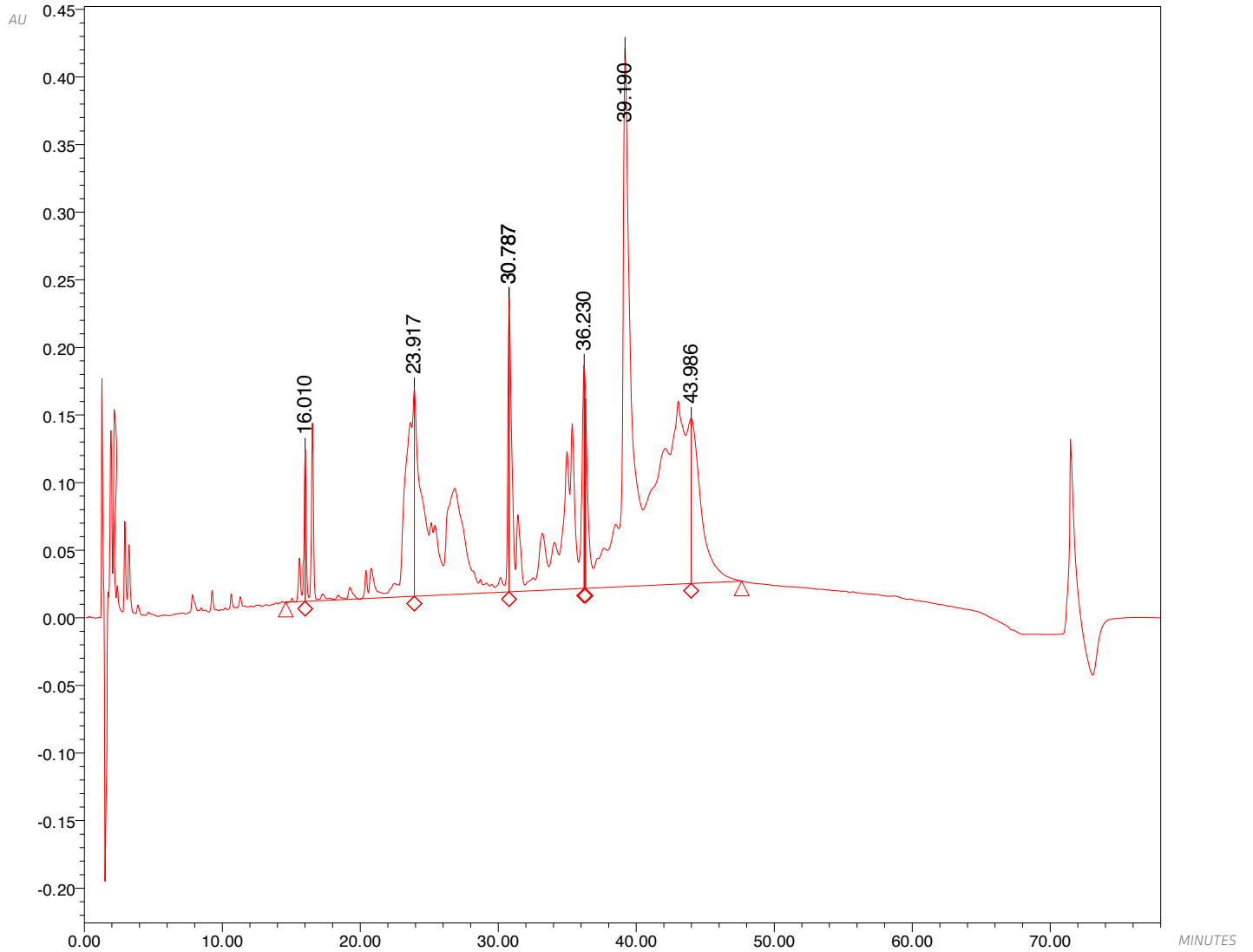
	VIAL	RETENTION TIME (MIN.)	AREA	HEIGHT	% AREA	% HEIGHT
01	27	2.156	3173286	185436	1.95	3.66
02	27	15.436	10706100	871538	6.57	17.19
03	27	20.257	425881	82065	0.26	1.62
04	27	22.551	9207455	106264	5.65	2.10
05	27	30.245	35642847	1319984	21.86	26.03
06	27	32.977	1111244	102094	0.68	2.01
07	27	34.883	5561167	432863	3.41	8.54
08	27	36.040	13820749	679894	8.48	13.41
09	27	37.840	77502916	1101577	47.53	21.72
10	27	42.833	5906856	189075	3.62	3.73



— AL_LC_CROPS3324 901.100; Vial 33; Injection 1; Channel 2998 Ch1 214nm@1.2nm; Date Acquired 27/11/2010 05:26:31 GMT

PEAK RESULTS

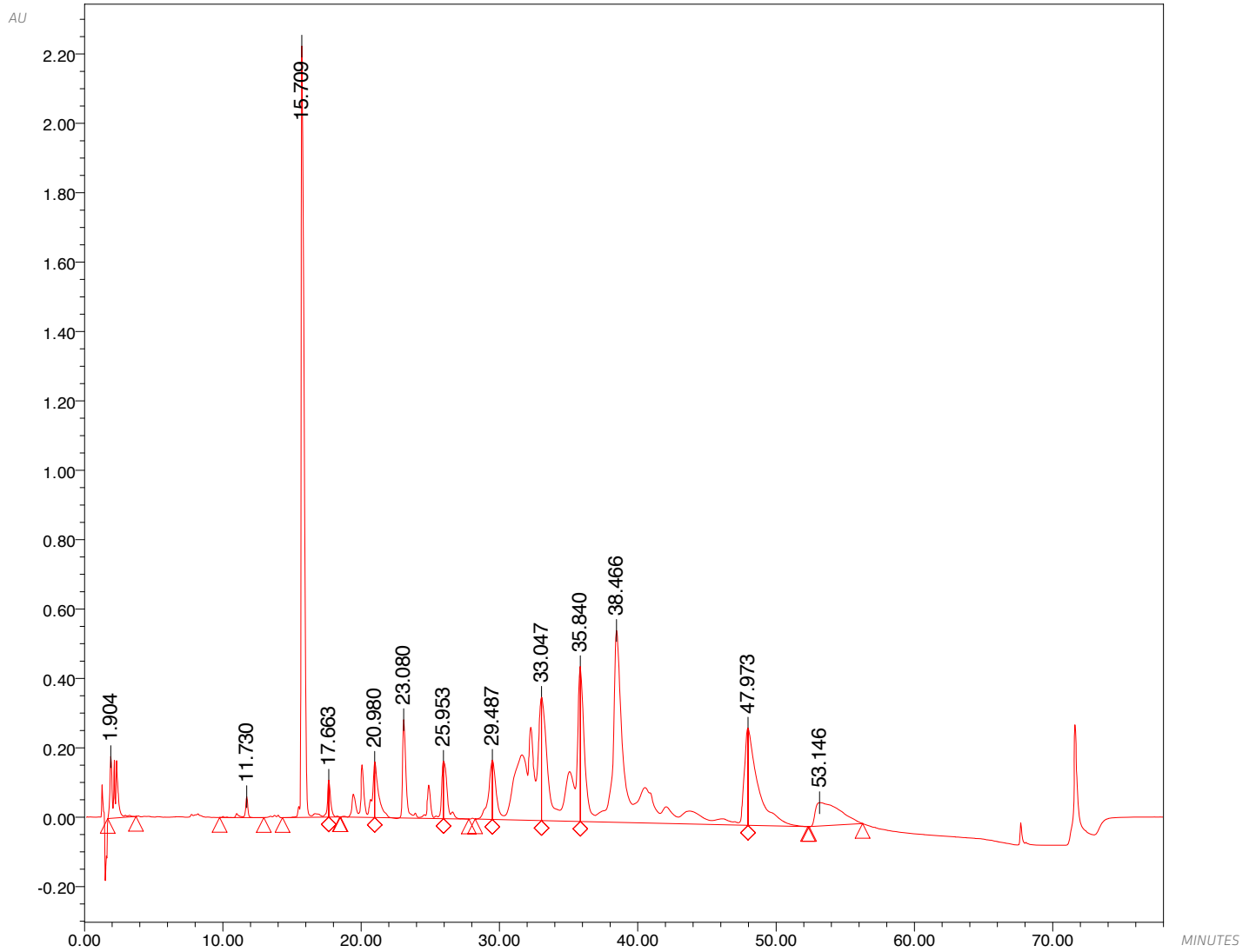
	VIAL	RETENTION TIME (MIN.)	AREA	HEIGHT	% AREA	% HEIGHT
01	33	1.890	3708736	193717	2.26	5.11
02	33	15.468	7688309	386478	4.69	10.20
03	33	19.792	1189033	73845	0.73	1.95
04	33	22.835	33729156	269103	20.58	7.10
05	33	25.460	8110935	176982	4.95	4.67
06	33	29.173	38288244	1189800	23.36	31.40
07	33	33.613	5120077	225117	3.12	5.94
08	33	34.603	6038872	263157	3.68	6.94
09	33	34.603	12862032	263157	7.85	6.94
10	33	37.617	49426	247132	0.03	6.52
11	33	40.315	32248898	319975	19.68	8.44
12	33	41.813	14845251	181240	9.06	4.78



— AL_LC_CROPS3360 927.050; Vial 52; Injection 1; Channel 2998 Ch1 214nm@1.2nm; Date Acquired 02/12/2010 03:51:53 GMT

PEAK RESULTS

	VIAL	RETENTION TIME (MIN.)	AREA	HEIGHT	% AREA	% HEIGHT
01	52	16.010	958469	112394	1.08	8.11
02	52	23.917	9577216	153617	10.76	11.09
03	52	30.787	16494302	217098	18.53	15.67
04	52	30.787	14353162	217098	16.13	15.67
05	52	36.230	874071	165079	0.98	11.92
06	52	39.190	40484068	398074	45.49	28.73
07	52	43.986	6252646	122098	7.03	8.81



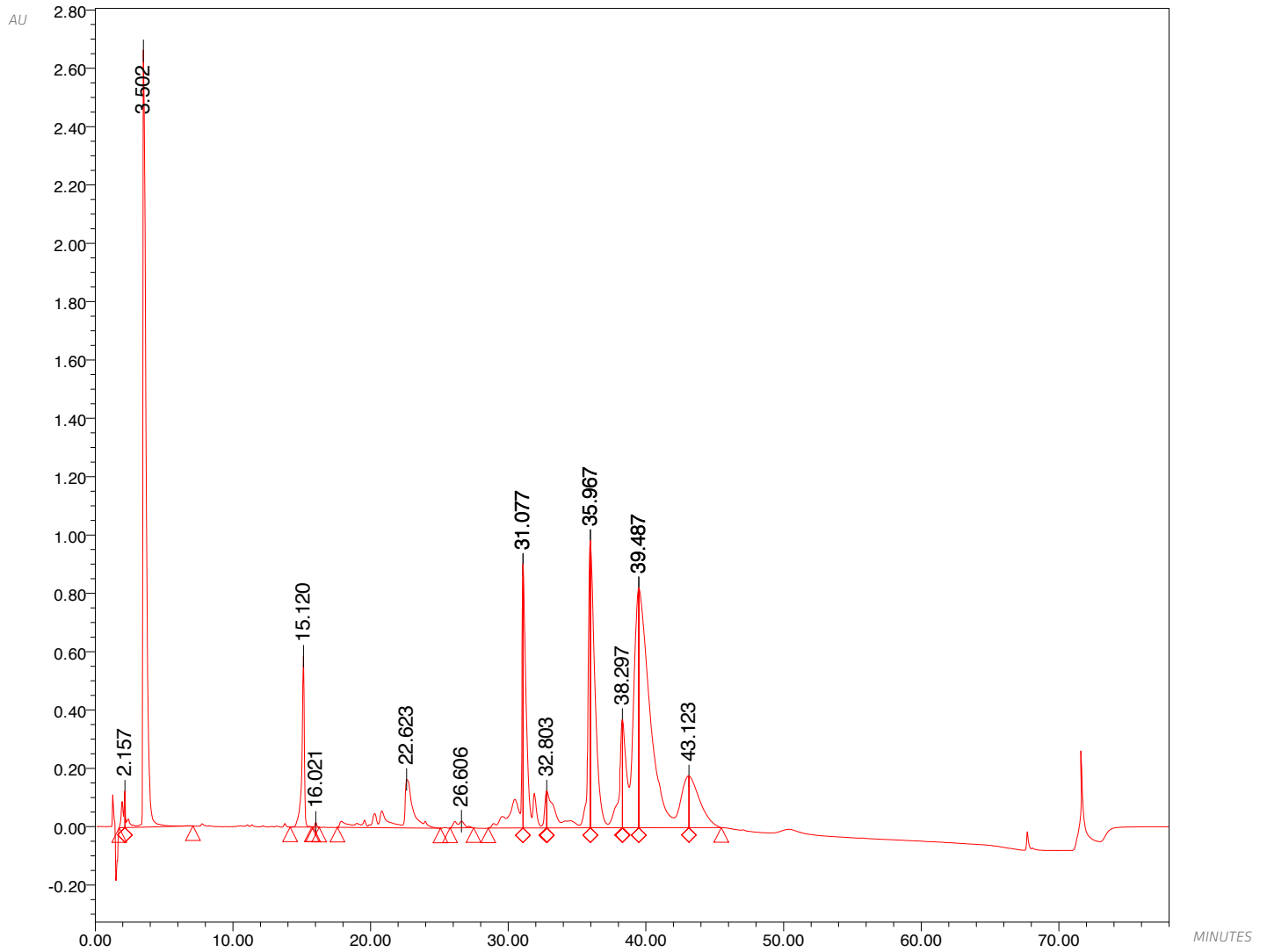
— AL_LC_CROPS3326 112.040; Vial 35; Injection 1; Channel 2998 Ch1 214nm@1.2nm; Date Acquired 27/11/2010 08:05:43 GMT

PEAK RESULTS

	VIAL	RETENTION TIME (MIN.)	AREA	HEIGHT	% AREA	% HEIGHT
01	35	1.904	4604643	178259	2.42	3.53
02	35	11.730	903486	60561	0.48	1.20
03	35	15.709	34322561	2223745	18.06	44.04
04	35	17.663	987657	106364	0.52	2.11
05	35	20.980	5433245	159872	2.86	3.17
06	35	23.080	11202695	283623	5.90	5.62
07	35	25.953	3069089	165361	1.62	3.27
08	35	29.487	3238310	170446	1.70	3.38
09	35	33.047	27533828	355221	14.49	7.03
10	35	35.840	21826054	446171	11.49	8.84
11	35	38.466	54653120	552787	28.76	10.95
12	35	47.973	13910915	279769	7.32	5.54
13	35	53.146	8350160	67293	4.39	1.33

CERTIFICATE OF ANALYSIS

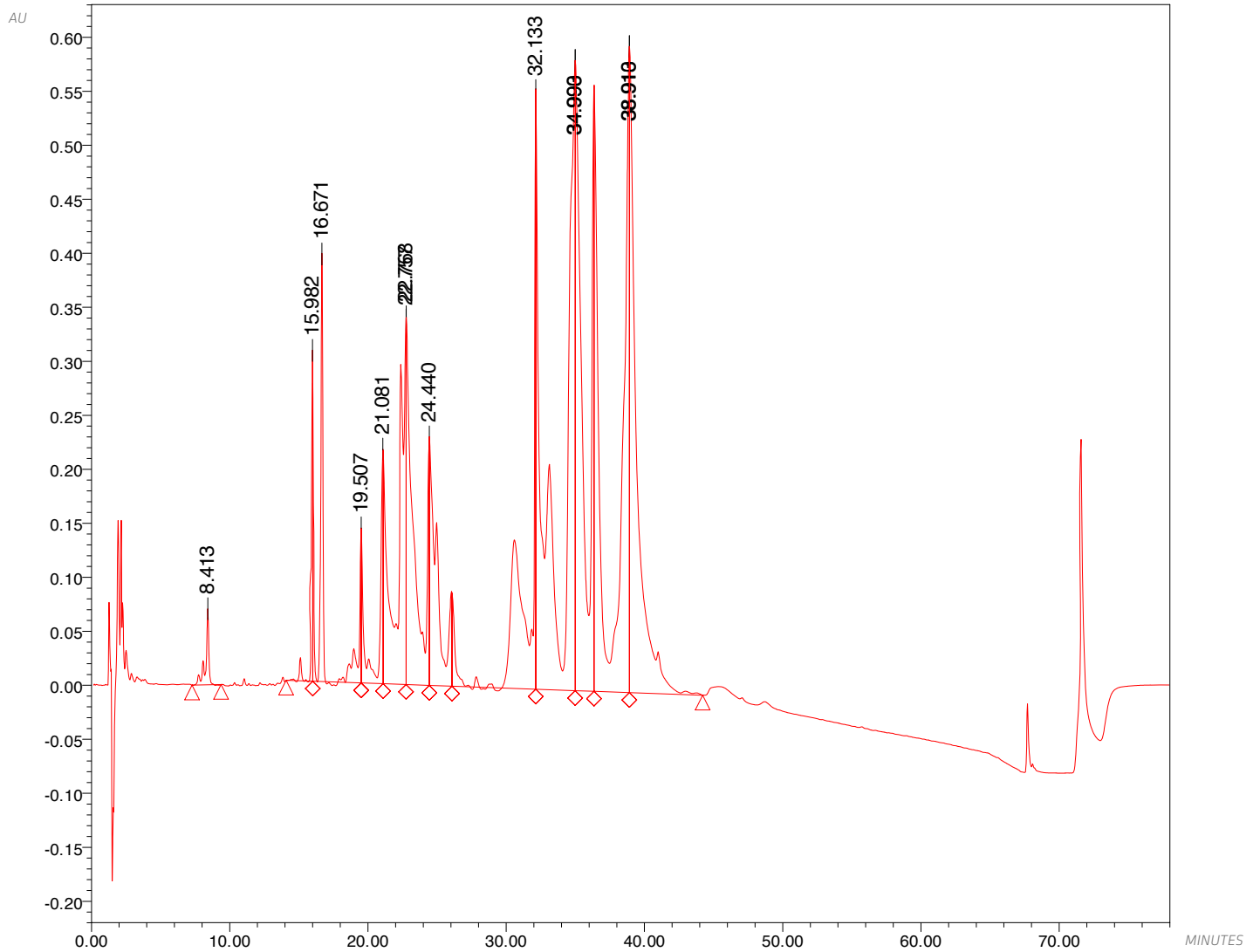
Venom: *Pseudocerastes persicus*
Batch: 504.010



— AL_LC_CROPS3331 504.010; Vial 40; Injection 1; Channel 2998 Ch1 214nm@1.2nm; Date Acquired 27/11/2010 14:43:39 GMT

PEAK RESULTS

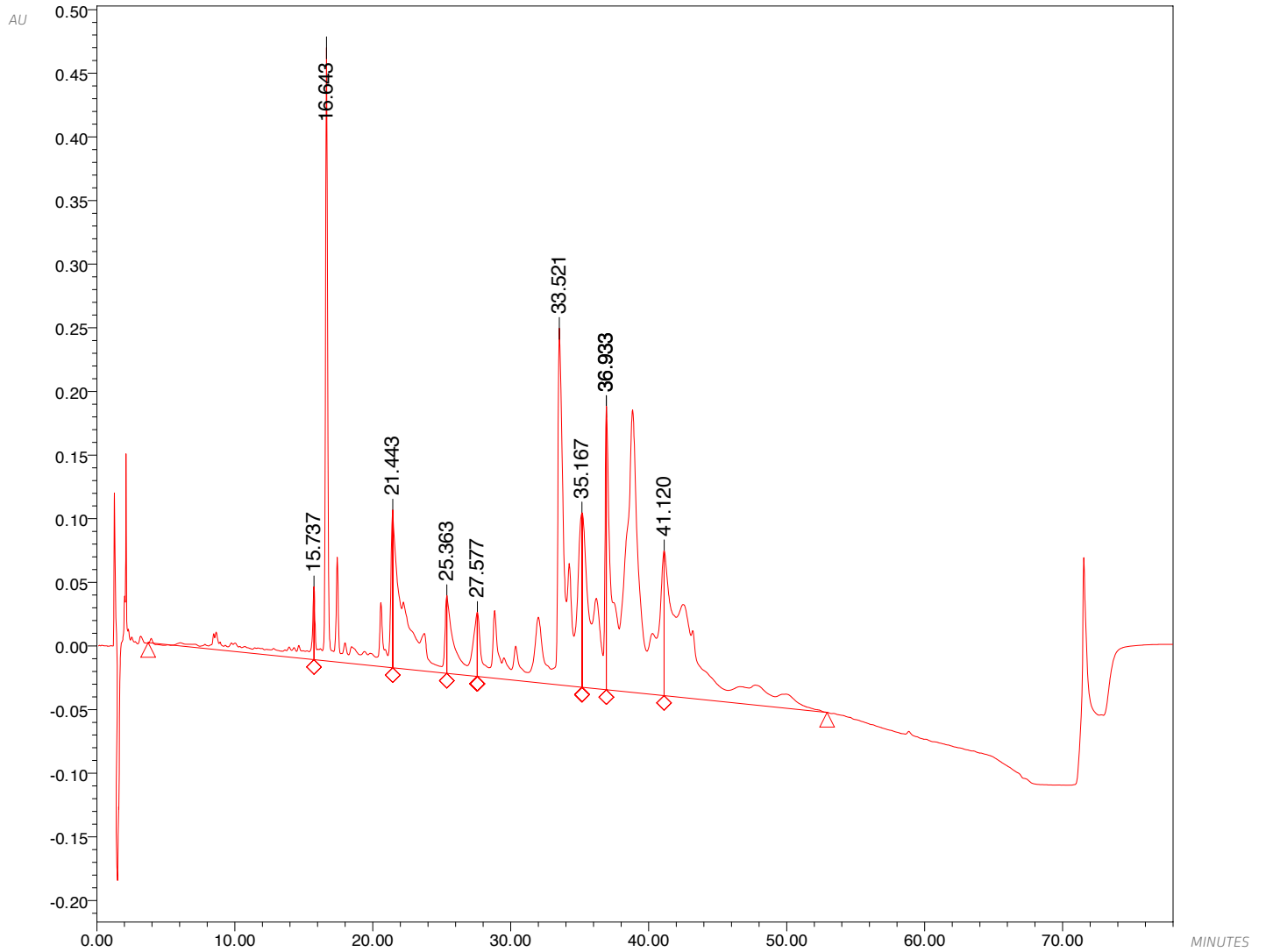
	VIAL	RETENTION TIME (MIN.)	AREA	HEIGHT	% AREA	% HEIGHT
01	40	2.157	1348355	124330	0.60	1.28
02	40	3.502	43574785	2664865	19.23	27.53
03	40	15.120	7176291	586105	3.17	6.06
04	40	16.021	147350	16524	0.07	0.17
05	40	22.623	11481627	166303	5.07	1.72
06	40	26.606	1099315	22899	0.49	0.24
07	40	31.077	16717299	903593	7.38	9.34
08	40	31.077	10158552	903593	4.48	9.34
09	40	32.803	25396	127027	0.01	1.31
10	40	35.967	28819302	984651	12.72	10.17
11	40	35.967	16624332	984651	7.34	10.17
12	40	38.297	74252	371410	0.03	3.84
13	40	39.487	52362333	822678	23.11	8.50
14	40	39.487	27202965	822678	12.01	8.50
15	40	43.123	9780975	177545	4.32	1.83



— AL_LC_CROPS3332 220.100; Vial 41; Injection 1; Channel 2998 Ch1 214nm@1.2nm; Date Acquired 27/11/2010 16:03:15 GMT

PEAK RESULTS

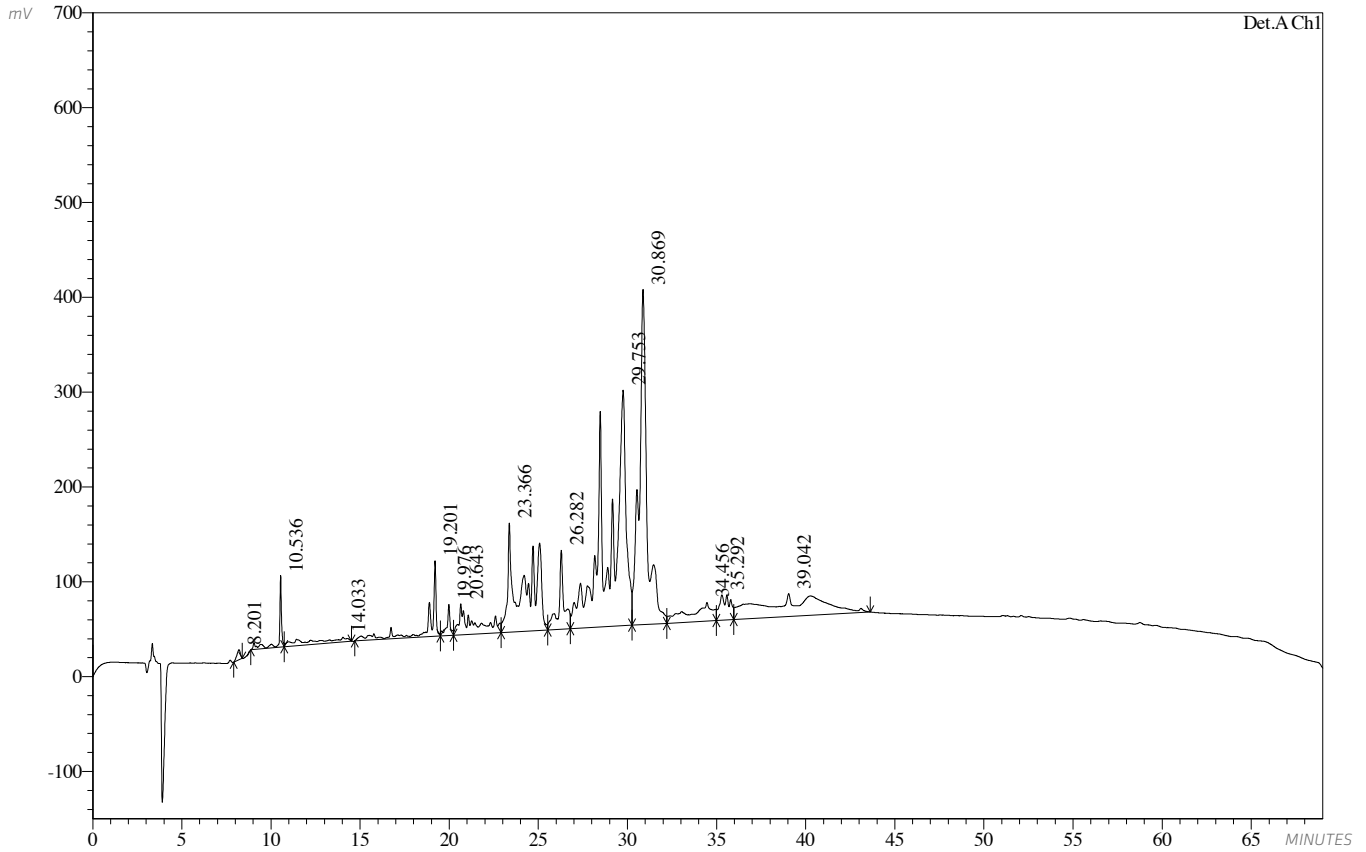
	VIAL	RETENTION TIME (MIN.)	AREA	HEIGHT	% AREA	% HEIGHT
01	41	8.413	1094218	70474	0.65	1.42
02	41	15.982	2053316	306639	1.22	6.18
03	41	16.671	6997774	396615	4.17	7.99
04	41	19.507	171862	143579	0.10	2.89
05	41	21.081	4052377	217293	2.41	4.38
06	41	22.757	13408964	339651	7.99	6.84
07	41	22.768	12870018	340557	7.67	6.86
08	41	24.440	8625497	230206	5.14	4.64
09	41	32.133	13166054	555144	7.84	11.18
10	41	34.990	33175612	583464	19.76	11.75
11	41	34.993	22738850	583521	13.54	11.76
12	41	38.910	27904479	598259	16.62	12.05
13	41	38.913	21627942	598316	12.88	12.05



— AL_LC_CROPS3237 206.030; Vial 44; Injection 1; Channel 2998 Ch1 214nm@1.2nm; Date Acquired 16/11/2010 18:34:32 GMT

PEAK RESULTS

	VIAL	RETENTION TIME (MIN.)	AREA	HEIGHT	% AREA	% HEIGHT
01	44	15.737	3058556	57178	3.48	3.27
02	44	16.643	10379398	481807	11.81	27.53
03	44	21.443	7395325	123825	8.41	7.08
04	44	25.363	3053103	60969	3.47	3.48
05	44	27.577	10055	50297	0.01	2.87
06	44	33.521	18296971	280203	20.81	16.01
07	44	35.167	82143	136923	0.09	7.82
08	44	36.933	7749181	222557	8.81	12.72
09	44	36.933	22389256	222557	25.47	12.72
10	44	41.120	15497184	113778	17.63	6.50

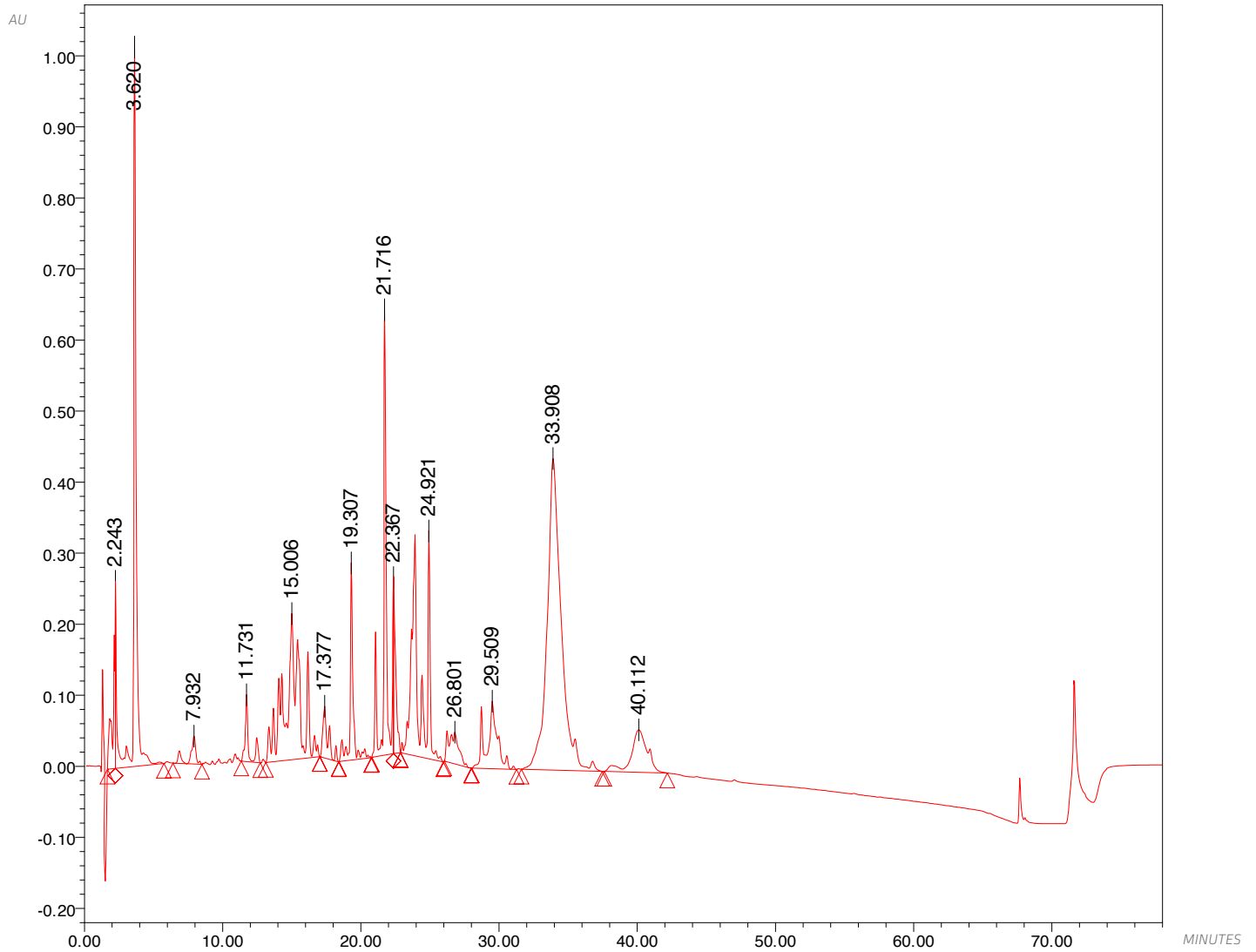


1 Det.A Ch1 / 214nm

406.030.lcd; Vial 2; Ch1: 214 nm; 17/10/2012 23:09:56
(HPLC Column : LichroCART 250-4 PurospherSTAR RP-18 (5µm) Column n°: 151172)

PEAK TABLE
Detector A Ch1 214nm

VIAL	RETENTION TIME (MIN.)	AREA	HEIGHT	% AREA	% HEIGHT
1	8.201	143625	10538	0.301	0.952
2	10.536	705712	75590	1.481	6.829
3	14.033	748350	4738	1.571	0.428
4	19.201	1685778	79536	3.539	7.185
5	19.976	415214	32947	0.872	2.976
6	20.643	1813041	32826	3.806	2.965
7	23.366	6540559	115072	13.730	10.395
8	26.282	1724992	83291	3.621	7.524
9	29.753	15073128	248598	31.641	22.458
10	30.869	10845921	353457	22.767	31.930
11	34.456	1730825	19514	3.633	1.763
12	35.292	1065799	26819	2.237	2.423
13	39.042	5145477	24035	10.801	2.171
Total		47638422	1106961	100.000	100.000



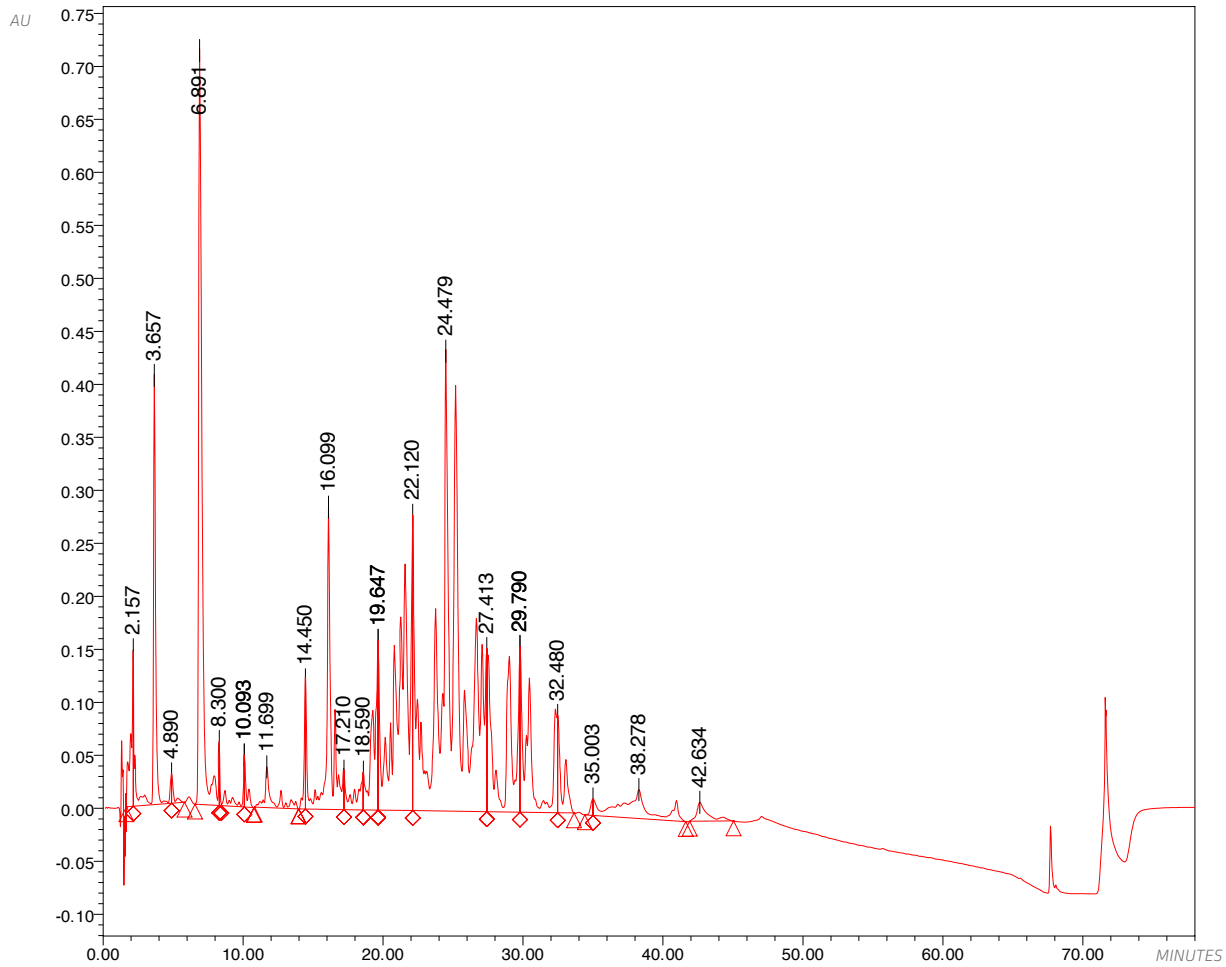
— AL_LC_CROPS3325 018.030; Vial 34; Injection 1; Channel 2998 Ch1 214nm@1.2nm; Date Acquired 27/11/2010 06:46:08 GMT

PEAK RESULTS

	VIAL	RETENTION TIME (MIN.)	AREA	HEIGHT	% AREA	% HEIGHT
01	34	2.243	2682016	263388	2.50	6.93
02	34	3.620	14102896	1013023	13.13	26.65
03	34	7.932	1069242	39166	1.00	1.03
04	34	11.731	1595355	94217	1.49	2.48
05	34	15.006	14304576	205751	13.32	5.41
06	34	17.377	1874094	72881	1.75	1.92
07	34	19.307	4023757	277615	3.75	7.30
08	34	21.716	9653952	626872	8.99	16.49
09	34	22.367	2575969	248980	2.40	6.55
10	34	24.921	12452854	321370	11.60	8.45
11	34	26.801	2313407	44601	2.15	1.17
12	34	29.509	4817167	95184	4.49	2.50
13	34	33.908	31072168	438577	28.93	11.54
14	34	40.112	4852592	59780	4.52	1.57

CERTIFICATE OF ANALYSIS

Venom: *Mesobuthus caucasicus*
Batch: 413.060



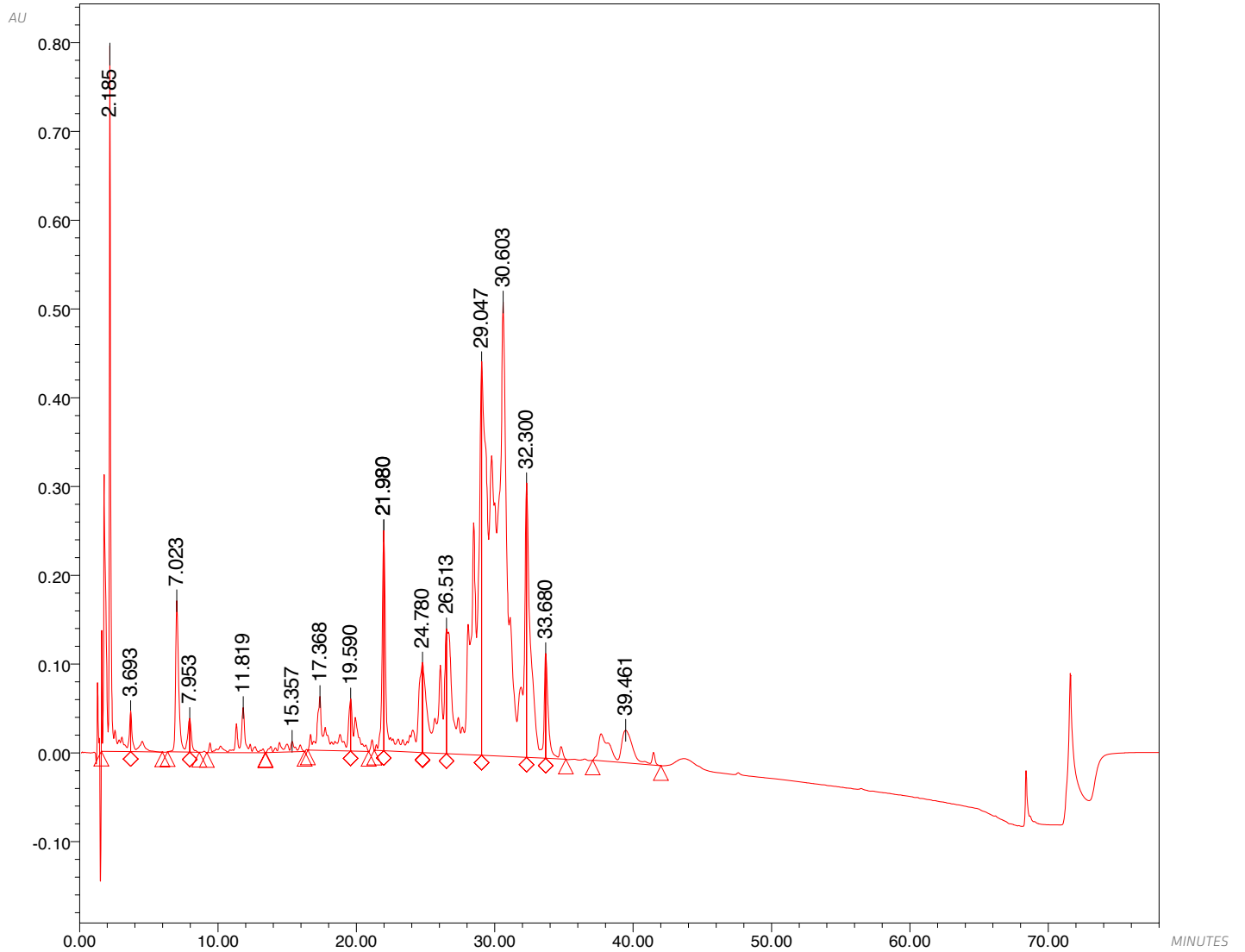
— AL_LC_CROPS3327 413.060; Vial 36; Injection 1; Channel 2998 Ch1 214nm@1.2nm; Date Acquired 27/11/2010 09:25:18 GMT

PEAK RESULTS

	VIAL	RETENTION TIME (MIN.)	AREA	HEIGHT	% AREA	% HEIGHT
01	36	2.157	1697838	147504	1.59	4.07
02	36	3.657	5288954	405813	4.94	11.19
03	36	4.890	275052	27779	0.26	0.77
04	36	6.891	12099903	712871	11.31	19.66
05	36	8.300	180548	60435	0.17	1.67
06	36	10.093	607596	49095	0.57	1.35
07	36	10.093	490302	49095	0.46	1.35
08	36	11.699	1250551	38482	1.17	1.06
09	36	14.450	712829	124487	0.67	3.43
10	36	16.099	6915204	285327	6.46	7.87
11	36	17.210	1269661	37158	1.19	1.02
12	36	18.590	7111	35613	0.01	0.98
13	36	19.647	3616833	160118	3.38	4.42
14	36	19.647	31999	160118	0.03	4.42
15	36	22.120	14870015	278672	13.89	7.68
16	36	24.479	36201086	435291	33.82	12.00
17	36	27.413	30760	153912	0.03	4.24
18	36	29.790	8449904	156303	7.90	4.31
19	36	29.790	6435348	156303	6.01	4.31
20	36	32.480	1870723	91802	1.75	2.53
21	36	35.003	177084	15509	0.17	0.43
22	36	38.278	3595610	27211	3.36	0.75
23	36	42.634	950843	17772	0.89	0.49

CERTIFICATE OF ANALYSIS

Venom: *Parabuthus raudus*
Batch: 906.040



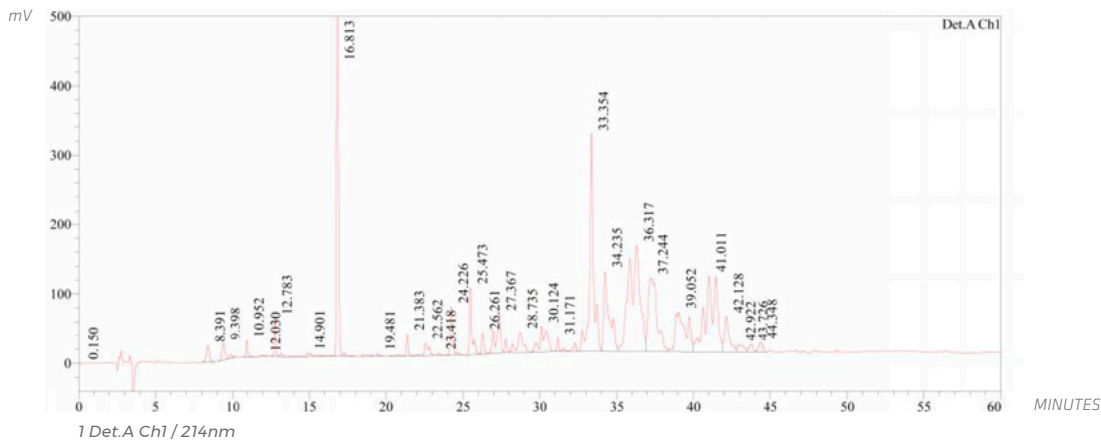
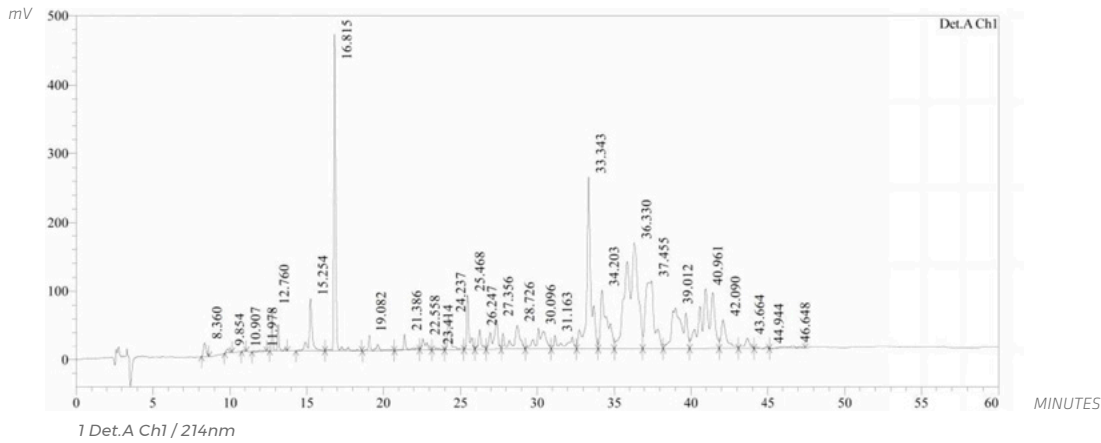
— AL_LC_CROPS3329 906.040; Vial 38; Injection 1; Channel 2998 Ch1 214nm@1.2nm; Date Acquired 27/11/2010 12:04:29 GMT

PEAK RESULTS

	VIAL	RETENTION TIME (MIN.)	AREA	HEIGHT	% AREA	% HEIGHT
01	38	2.185	9396195	795859	8.63	23.50
02	38	3.693	675168	45469	0.62	1.34
03	38	7.023	2982075	170246	2.74	5.03
04	38	7.953	343153	37818	0.31	1.12
05	38	11.819	1814518	50897	1.67	1.50
06	38	15.357	772756	11737	0.71	0.35
07	38	17.368	3181929	60892	2.92	1.80
08	38	19.590	1353979	58674	1.24	1.73
09	38	21.980	5303699	247800	4.87	7.32
10	38	21.980	2023230	247800	1.86	7.32
11	38	24.780	20199	101020	0.02	2.98
12	38	26.513	5748424	140435	5.28	4.15
13	38	29.047	17413326	443449	15.98	13.09
14	38	30.603	45690709	511629	41.94	15.10
15	38	32.300	6713652	308974	6.16	9.12
16	38	33.680	1713156	117907	1.57	3.48
17	38	39.461	3793102	36679	3.48	1.08

CERTIFICATE OF ANALYSIS

Venom: *Leiurus quinquestriatus quinquestriatus*
 Batch: 727.051 Reference batch : 029.021

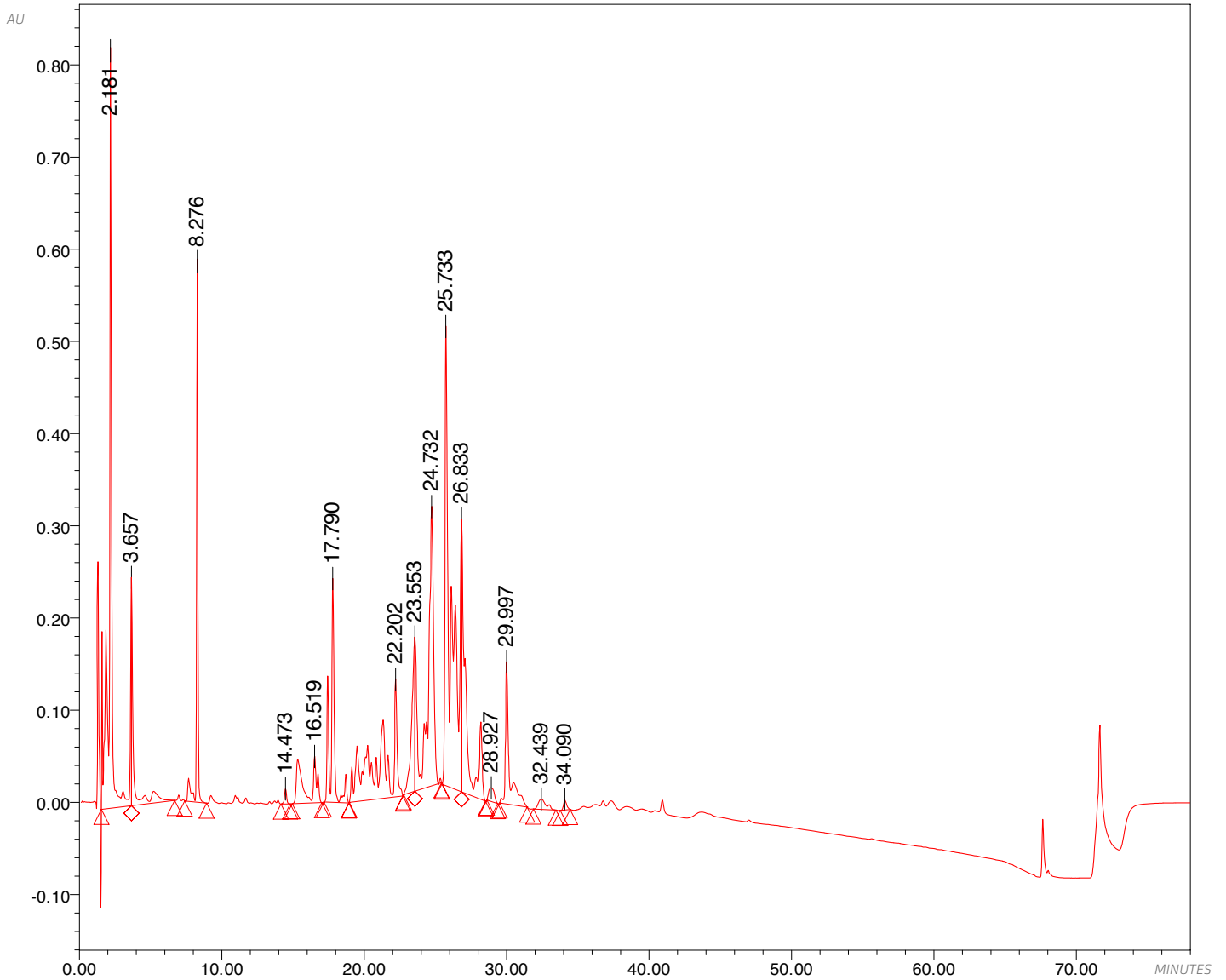


— 029.021; Vial 3; Ch1: 214 nm; 11/08/2015 18:18:40
 — 727.051; Vial 2; Ch1: 214 nm; 11/08/2015 16:59:00

PEAK TABLE

Detector A Ch1 214nm

VIAL	RETENTION TIME (MIN.)	AREA	HEIGHT	% AREA	% HEIGHT
1	8.360	241695	20383	0.572	1.144
2	9.854	66835	5414	0.158	0.304
3	10.907	16475	1948	0.039	0.109
4	11.978	42749	1750	0.101	0.098
5	12.760	618955	62388	1.464	3.502
6	15.254	1071283	75950	2.534	4.263
7	16.815	3810678	460600	9.014	25.855
8	19.082	394127	23105	0.932	1.297
9	21.386	264708	23574	0.626	1.323
10	22.558	290465	16358	0.687	0.918
11	23.414	38924	2746	0.092	0.154
12	24.237	683746	49655	1.617	2.787
13	25.468	874293	79241	2.068	4.448
14	26.247	372917	29195	0.882	1.639
15	27.356	1005455	42771	2.378	2.401
16	28.726	1213181	34774	2.870	1.952
17	30.096	1237678	31284	2.928	1.756
18	31.163	851555	20274	2.014	1.138
19	33.343	4932938	250448	11.668	14.059
20	34.203	2483387	85771	5.874	4.815
21	36.330	8380222	153950	19.823	8.642
22	37.455	3975385	99008	9.403	5.558
23	39.012	3183771	59544	7.531	3.342
24	40.961	4588497	87277	10.854	4.899
25	42.090	1039440	42052	2.459	2.361
26	43.664	360650	15577	0.853	0.874
27	44.944	34608	2434	0.082	0.137
28	46.648	201235	3982	0.476	0.224
Total		42275852	1781453	100.000	100.000



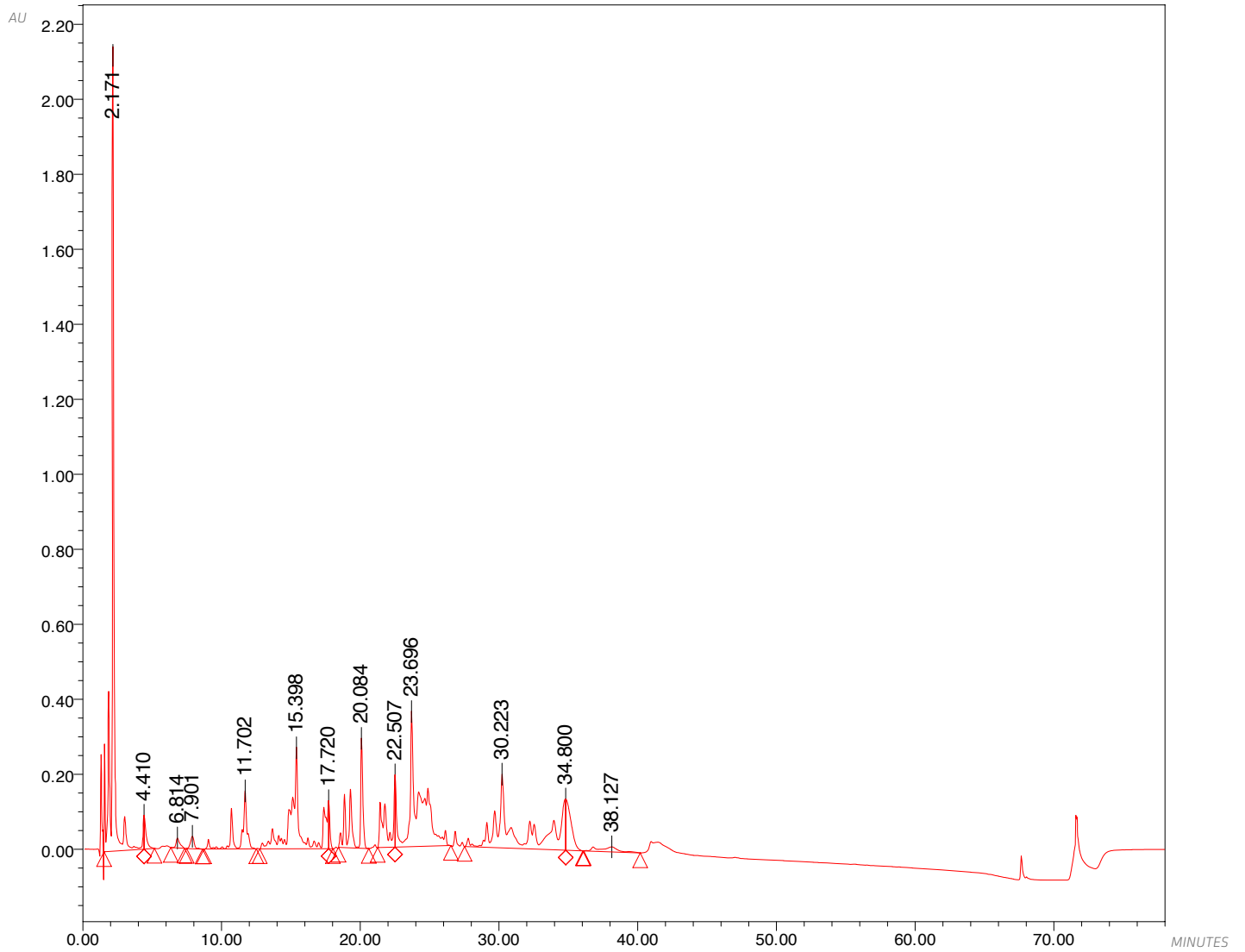
— AL_LC_CROPS3319 723.030; Vial 28; Injection 1; Channel 2998 Ch1 214nm@1.2nm; Date Acquired 26/11/2010 22:48:41 GMT

PEAK RESULTS

	VIAL	RETENTION TIME (MIN.)	AREA	HEIGHT	% AREA	% HEIGHT
01	28	2.181	10922857	825445	16.54	23.21
02	28	3.657	2271702	247575	3.44	6.96
03	28	8.276	3761294	589309	5.69	16.57
04	28	14.473	166689	16408	0.25	0.46
05	28	16.519	2211880	50488	3.35	1.42
06	28	17.790	4001513	242983	6.06	6.83
07	28	22.202	7575886	128069	11.47	3.60
08	28	23.553	2423984	167215	3.67	4.70
09	28	24.732	8956896	303266	13.56	8.53
10	28	25.733	13951319	498555	21.12	14.02
11	28	26.833	5886337	295886	8.91	8.32
12	28	28.927	402412	14799	0.61	0.42
13	28	29.997	2936169	154483	4.44	4.34
14	28	32.439	428930	11189	0.65	0.31
15	28	34.090	160563	10918	0.24	0.31

CERTIFICATE OF ANALYSIS

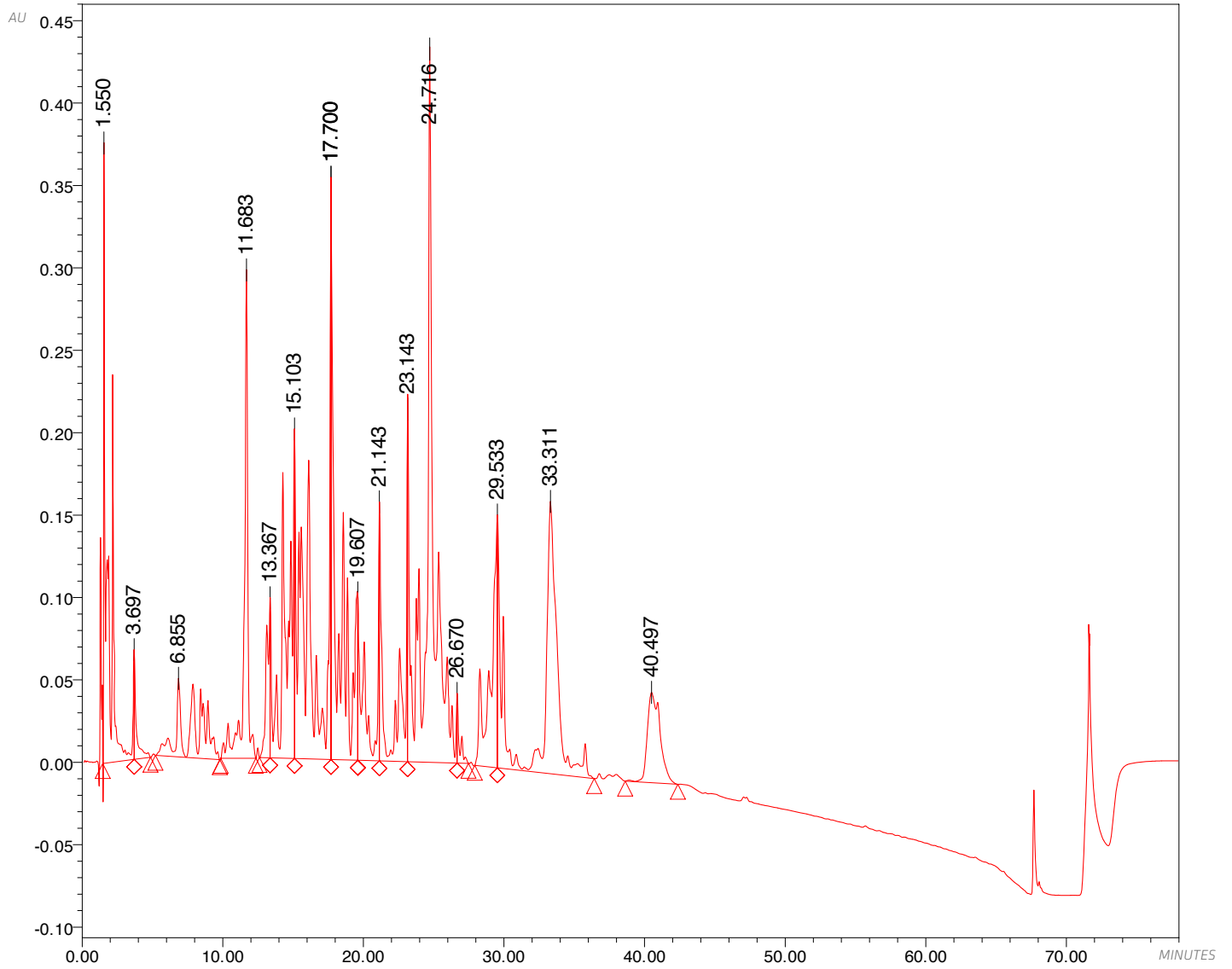
Venom: *Cheloctonus jonesii*
Batch: 820.130



— AL_LC_CROPS3320 820.130; Vial 29; Injection 1; Channel 2998 Ch1 214nm@1.2nm; Date Acquired 27/11/2010 00:08:17 GMT

PEAK RESULTS

	VIAL	RETENTION TIME (MIN.)	AREA	HEIGHT	% AREA	% HEIGHT
01	29	2.171	22443657	2146321	24.29	53.06
02	29	4.410	934491	90064	1.01	2.23
03	29	6.814	483918	26288	0.52	0.65
04	29	7.901	622528	33277	0.67	0.82
05	29	11.702	4240027	155078	4.59	3.83
06	29	15.398	12400156	270990	13.42	6.70
07	29	17.720	761245	128095	0.82	3.17
08	29	20.084	6677556	293825	7.23	7.26
09	29	22.507	4491264	192592	4.86	4.76
10	29	23.696	17309503	361417	18.73	8.94
11	29	30.223	17078463	196606	18.48	4.86
12	29	34.800	3693939	136666	4.00	3.38
13	29	38.127	1267128	13666	1.37	0.34



— AL_LC_CROPS3328 130.130; Vial 37; Injection 1; Channel 2998 Ch1 214nm@1.2nm; Date Acquired 27/11/2010 10:44:54 GMT

PEAK RESULTS

	VIAL	RETENTION TIME (MIN.)	AREA	HEIGHT	% AREA	% HEIGHT
01	37	1.550	6090517	376562	6.88	12.07
02	37	3.697	683213	66566	0.77	2.13
03	37	6.855	3619168	47649	4.09	1.53
04	37	11.683	5147768	296457	5.81	9.50
05	37	13.367	1597007	97205	1.80	3.12
06	37	15.103	6763633	199932	7.64	6.41
07	37	17.700	11315786	353222	12.78	11.32
08	37	17.700	9151733	353222	10.34	11.32
09	37	19.607	20254	101530	0.02	3.25
10	37	21.143	3097259	157144	3.50	5.04
11	37	23.143	4103488	221053	4.64	7.08
12	37	24.716	16792603	434163	18.97	13.91
13	37	26.670	446443	42294	0.50	1.36
14	37	29.533	4685214	153467	5.29	4.92
15	37	33.311	11553897	165262	13.05	5.30
16	37	40.497	3464109	54769	3.91	1.76