








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

PRODUCT INFORMATION

The **KITOXAN®-V01** Library is a set of **5 plates (96-wells)** containing freeze-dried fractions of venoms from the **following species**:

	ELA-1 (Elapid snakes) <i>Dendroaspis angusticeps, Dendroaspis polylepis polylepis, Naja nivea, Naja annulifera.</i>
	VIP-1 (Viperid snakes) <i>Echis ocellatus, Bitis gabonica gabonica, Cerastes cerastes, Bitis arietans.</i>
	CRO-1 (Crotalid snakes) <i>Calloselasma rhodostoma, Crotalus atrox, Crotalus adamanteus, Agkistrodon piscivorus conanti.</i>
	SCO-1 (Scorpions) <i>Parabuthus transvaalicus, Leiurus quinquestriatus hebraeus, Opisthophthalmus wahlbergii, Buthus occitanus mardochei.</i>
	AMS-1 (Amphibians, Spider) <i>Bufo bufo, Bufo viridis, Bufo caucasicus, Argiope lobata.</i>

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 **1100g for 10 mn** (3000 rpm with a 110mm rotor radius). Open cautiously (lyophilised content).

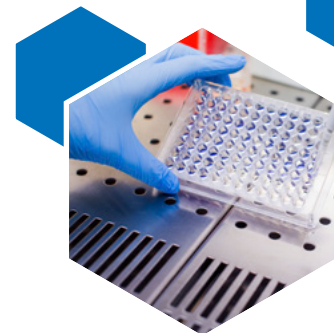
RECONSTITUTION

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**.

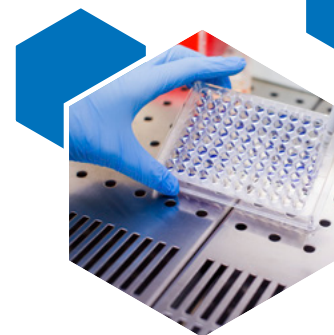


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PLATE MAPS

Plate ELA-1												
	1	2	3	4	5	6	7	8	9	10	11	12
A	×	DENAN	DENAN	DENAN	DENAN	DENAN	DENAN	DENAN	DENAN	DENAN	DENAN	×
B	×	DENAN	DENAN	DENAN	DENAN	DENAN	DENAN	DENAN	DENAN	DENAN	DENAN	×
C	×	DENPP	DENPP	DENPP	DENPP	DENPP	DENPP	DENPP	DENPP	DENPP	DENPP	×
D	×	DENPP	DENPP	DENPP	DENPP	DENPP	DENPP	DENPP	DENPP	DENPP	DENPP	×
E	×	NAJNI	NAJNI	NAJNI	NAJNI	NAJNI	NAJNI	NAJNI	NAJNI	NAJNI	NAJNI	×
F	×	NAJNI	NAJNI	NAJNI	NAJNI	NAJNI	NAJNI	NAJNI	NAJNI	NAJNI	NAJNI	×
G	×	NAJAN	NAJAN	NAJAN	NAJAN	NAJAN	NAJAN	NAJAN	NAJAN	NAJAN	NAJAN	×
H	×	NAJAN	NAJAN	NAJAN	NAJAN	NAJAN	NAJAN	NAJAN	NAJAN	NAJAN	NAJAN	×

Plate VIP-1												
	1	2	3	4	5	6	7	8	9	10	11	12
A	×	ECHOC	ECHOC	ECHOC	ECHOC	ECHOC	ECHOC	ECHOC	ECHOC	ECHOC	ECHOC	×
B	×	ECHOC	ECHOC	ECHOC	ECHOC	ECHOC	ECHOC	ECHOC	ECHOC	ECHOC	ECHOC	×
C	×	BITGG	BITGG	BITGG	BITGG	BITGG	BITGG	BITGG	BITGG	BITGG	BITGG	×
D	×	BITGG	BITGG	BITGG	BITGG	BITGG	BITGG	BITGG	BITGG	BITGG	BITGG	×
E	×	CERCE	CERCE	CERCE	CERCE	CERCE	CERCE	CERCE	CERCE	CERCE	CERCE	×
F	×	CERCE	CERCE	CERCE	CERCE	CERCE	CERCE	CERCE	CERCE	CERCE	CERCE	×
G	×	BITAR	BITAR	BITAR	BITAR	BITAR	BITAR	BITAR	BITAR	BITAR	BITAR	×
H	×	BITAR	BITAR	BITAR	BITAR	BITAR	BITAR	BITAR	BITAR	BITAR	BITAR	×



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Plate CRO-1

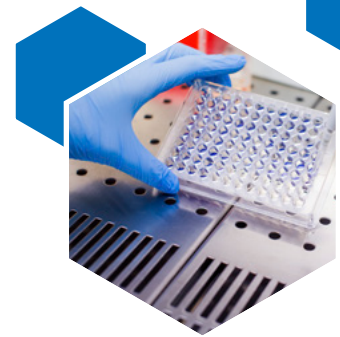
	1	2	3	4	5	6	7	8	9	10	11	12
A	×	CALRH	CALRH	CALRH	CALRH	CALRH	CALRH	CALRH	CALRH	CALRH	CALRH	×
B	×	CALRH	CALRH	CALRH	CALRH	CALRH	CALRH	CALRH	CALRH	CALRH	CALRH	×
C	×	CROAT	CROAT	CROAT	CROAT	CROAT	CROAT	CROAT	CROAT	CROAT	CROAT	×
D	×	CROAT	CROAT	CROAT	CROAT	CROAT	CROAT	CROAT	CROAT	CROAT	CROAT	×
E	×	CROAD	CROAD	CROAD	CROAD	CROAD	CROAD	CROAD	CROAD	CROAD	CROAD	×
F	×	CROAD	CROAD	CROAD	CROAD	CROAD	CROAD	CROAD	CROAD	CROAD	CROAD	×
G	×	AGKPC	AGKPC	AGKPC	AGKPC	AGKPC	AGKPC	AGKPC	AGKPC	AGKPC	AGKPC	×
H	×	AGKPC	AGKPC	AGKPC	AGKPC	AGKPC	AGKPC	AGKPC	AGKPC	AGKPC	AGKPC	×

Plate SCO-1

	1	2	3	4	5	6	7	8	9	10	11	12
A	×	PARTR	PARTR	PARTR	PARTR	PARTR	PARTR	PARTR	PARTR	PARTR	PARTR	×
B	×	PARTR	PARTR	PARTR	PARTR	PARTR	PARTR	PARTR	PARTR	PARTR	PARTR	×
C	×	LEIQH	LEIQH	LEIQH	LEIQH	LEIQH	LEIQH	LEIQH	LEIQH	LEIQH	LEIQH	×
D	×	LEIQH	LEIQH	LEIQH	LEIQH	LEIQH	LEIQH	LEIQH	LEIQH	LEIQH	LEIQH	×
E	×	OPIWA	OPIWA	OPIWA	OPIWA	OPIWA	OPIWA	OPIWA	OPIWA	OPIWA	OPIWA	×
F	×	OPIWA	OPIWA	OPIWA	OPIWA	OPIWA	OPIWA	OPIWA	OPIWA	OPIWA	OPIWA	×
G	×	BUTOM	BUTOM	BUTOM	BUTOM	BUTOM	BUTOM	BUTOM	BUTOM	BUTOM	BUTOM	×
H	×	BUTOM	BUTOM	BUTOM	BUTOM	BUTOM	BUTOM	BUTOM	BUTOM	BUTOM	BUTOM	×

Plate AMS-1

	1	2	3	4	5	6	7	8	9	10	11	12
A	×	BUFBU	BUFBU	BUFBU	BUFBU	BUFBU	BUFBU	BUFBU	BUFBU	BUFBU	BUFBU	×
B	×	BUFBU	BUFBU	BUFBU	BUFBU	BUFBU	BUFBU	BUFBU	BUFBU	BUFBU	BUFBU	×
C	×	BUFVI	BUFVI	BUFVI	BUFVI	BUFVI	BUFVI	BUFVI	BUFVI	BUFVI	BUFVI	×
D	×	BUFVI	BUFVI	BUFVI	BUFVI	BUFVI	BUFVI	BUFVI	BUFVI	BUFVI	BUFVI	×
E	×	BUFCA	BUFCA	BUFCA	BUFCA	BUFCA	BUFCA	BUFCA	BUFCA	BUFCA	BUFCA	×
F	×	BUFCA	BUFCA	BUFCA	BUFCA	BUFCA	BUFCA	BUFCA	BUFCA	BUFCA	BUFCA	×
G	×	ARGLO	ARGLO	ARGLO	ARGLO	ARGLO	ARGLO	ARGLO	ARGLO	ARGLO	ARGLO	×
H	×	ARGLO	ARGLO	ARGLO	ARGLO	ARGLO	ARGLO	ARGLO	ARGLO	ARGLO	ARGLO	×



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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-V01

Code : L5901

Plates : L5301 ELA-1 Plate, L5101 VIP-1 Plate, L5201 CRO-1 Plate, L5601 SCO-1 Plate, L5701 AMS-1 Plate

PRODUCT INTENDED FOR RESEARCH USE ONLY

FOR MORE INFORMATION PLEASE CONTACT



LATOXAN
LABORATORY
Natural Active Ingredients

LATOXAN SAS

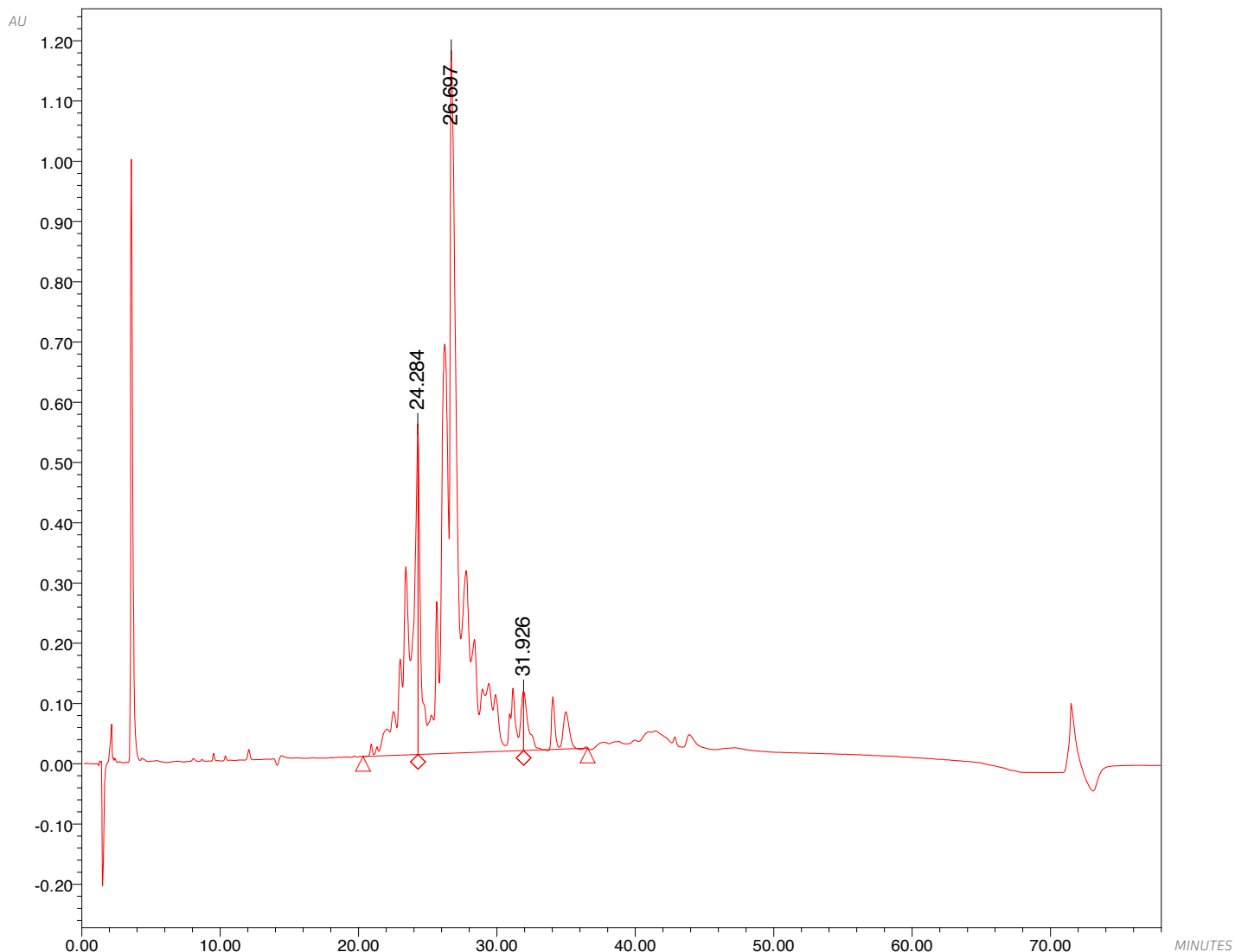
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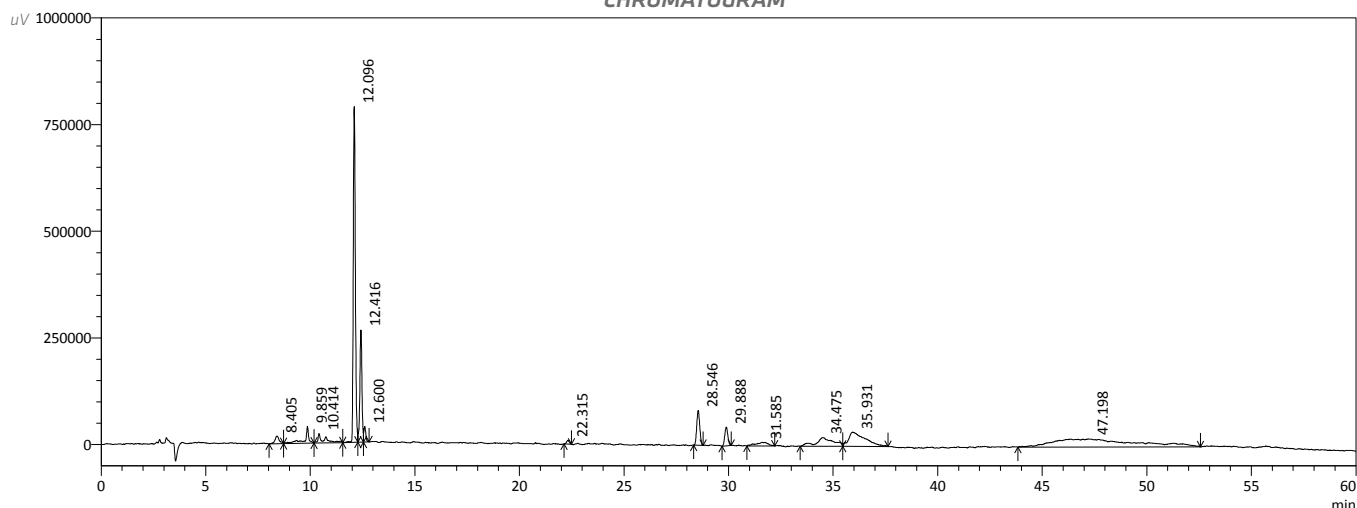


AL_LC_CROPS3362 305.000; Vial 54; Injection 1; Channel 2998 Ch1 214nm@1.2nm; Date Acquired 02/12/2010 06:31:01 GMT

PEAK RESULTS

	VIAL	RETENTION TIME (MIN.)	AREA	HEIGHT	% AREA	% HEIGHT
01	54	24.284	23548411	157239	19.32	30.24
02	54	26.697	92601788	157239	75.98	64.30
03	54	31.926	5719958	43885	4.69	5.46

CHROMATOGRAM



1 Det.A Ch1 / 214nm

MINUTES

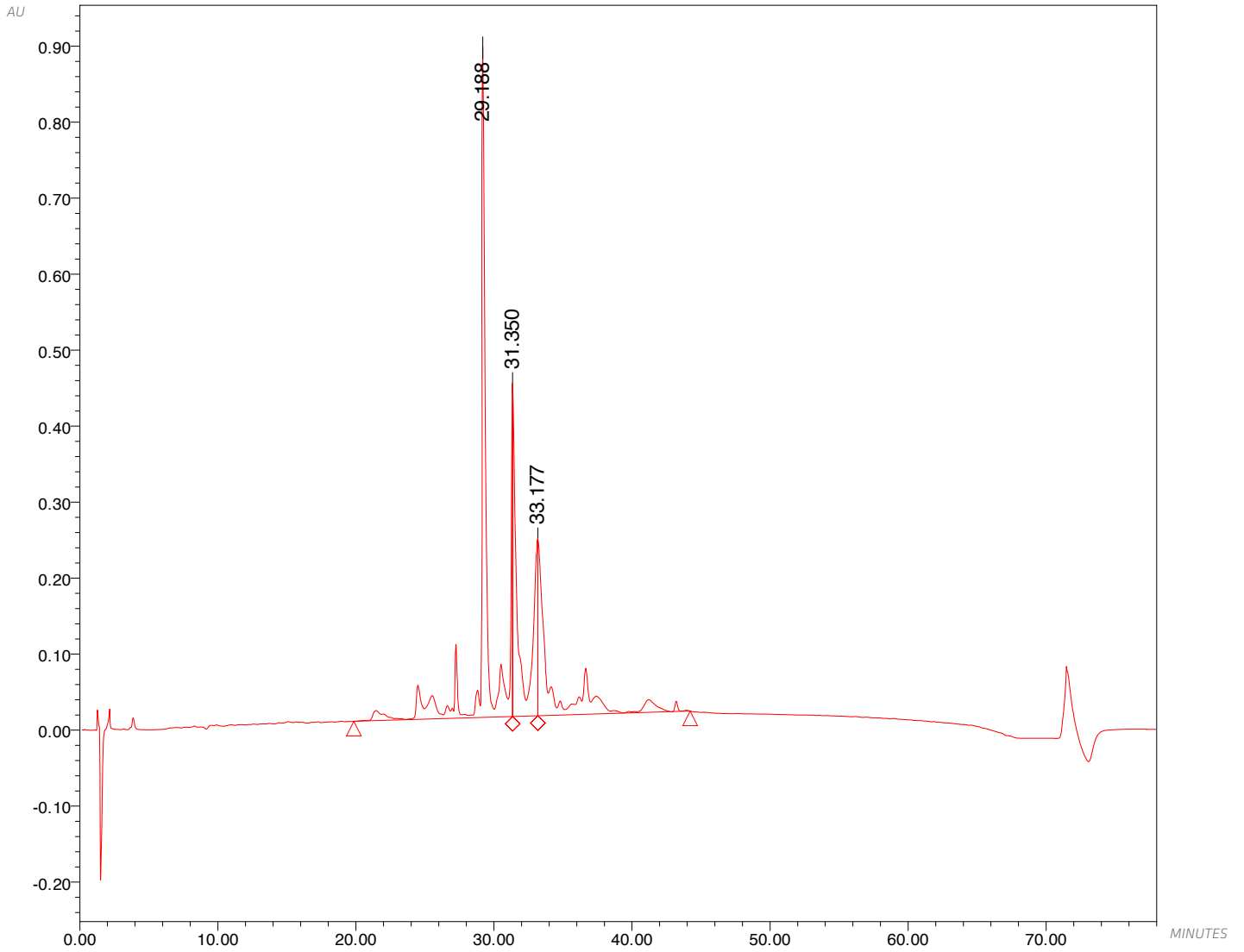
1 Det.A Ch1 / 214nm

(HPLC Column : Macherey Nagel Nucleodur 100-5 C18ec
GRADIENT 0-60% B 60 MIN
A : H2O / 0.1% TFA
B : 90% CH3CN / 10% H2O / 0.1% TFA)

PEAK TABLE

Detector A Ch1 214nm

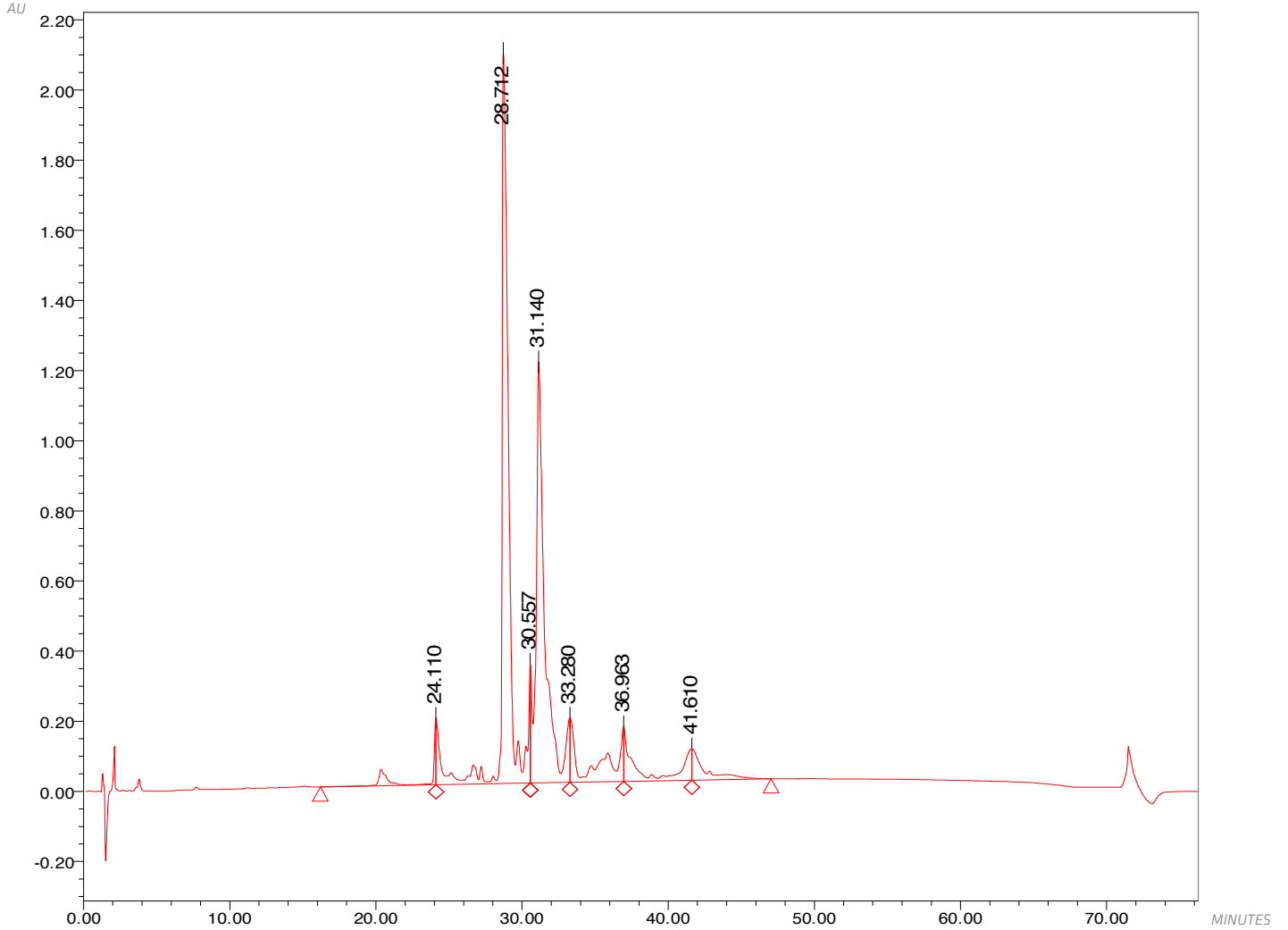
VIAL	RETENTION TIME (MIN.)	AREA	HEIGHT	% AREA	% HEIGHT
1	8.408	221269	17456	0.527	1.414
2	12.104	5855213	833751	13.950	67.513
3	29.926	8750221	105510	20.847	8.544
4	31.870	11343280	140056	27.025	11.341
5	34.181	11154721	85107	26.576	6.892
6	37.858	4648653	53068	11.075	4.297
Total		41973357	1234949	100.000	100.000



— AL_LC_CROPS3354 524.010; Vial 45; Injection 1; Channel 2998 Ch1 214nm@1.2nm; Date Acquired 01/12/2010 19:54:19 GMT

PEAK RESULTS

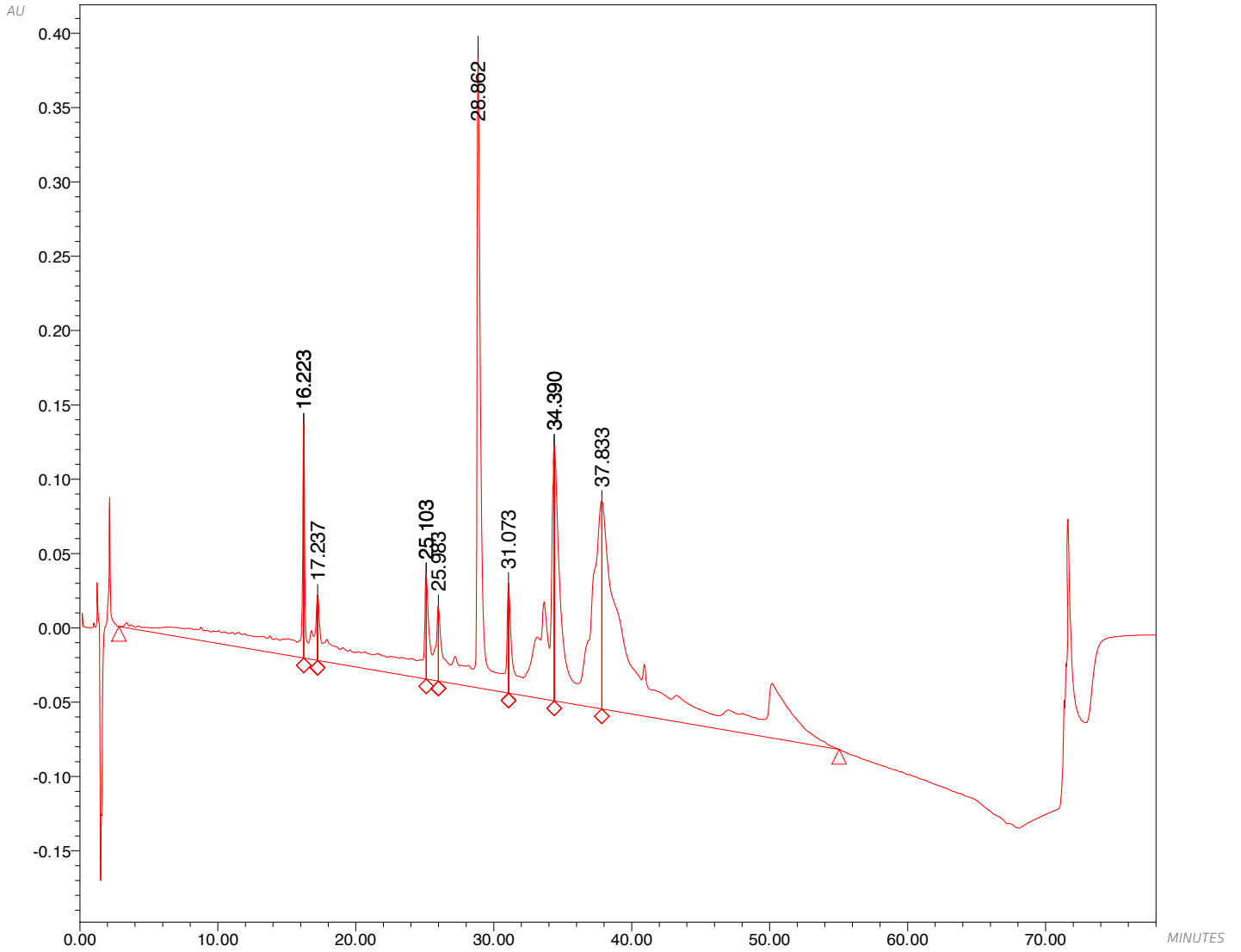
	VIAL	RETENTION TIME (MIN.)	AREA	HEIGHT	% AREA	% HEIGHT
01	45	29.188	25080329	882207	49.97	56.80
02	45	31.350	12903089	438095	25.71	28.21
03	45	33.177	12211202	232941	24.33	15.00



— AL_LC_CROPS3431 622.040; Vial 22; Injection 1; Channel 2998 Ch1 214nm@1.2nm; Date Acquired 27/12/2010 19:21:07 GMT

PEAK RESULTS

	VIAL	RETENTION TIME (MIN.)	AREA	HEIGHT	% AREA	% HEIGHT
01	22	24.110	3352230	190250	2.21	4.48
02	22	28.712	69833296	2084268	46.10	49.08
03	22	30.557	203248	339641	0.13	8.00
04	22	31.140	50797399	1200941	33.53	28.28
05	22	33.280	12564185	184560	8.29	4.35
06	22	36.963	9339086	156863	6.16	3.69
07	22	41.610	5398443	89991	3.56	2.12

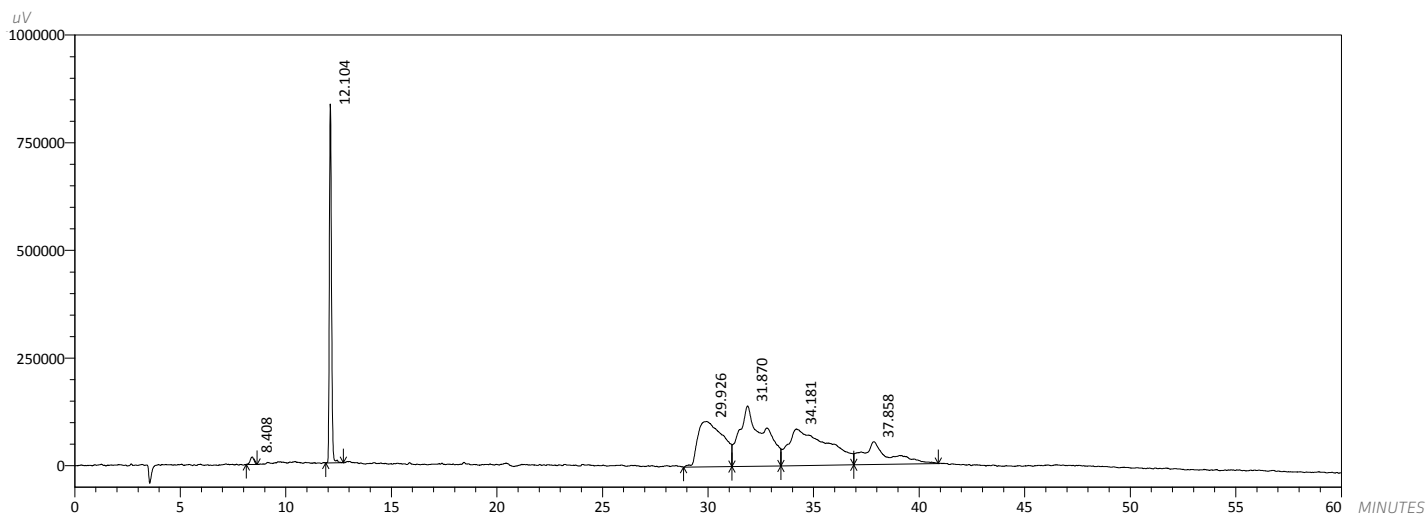


— AL_LC_CROPS3119_522060; Vial 26; Injection 1; Channel 2998 Ch1 214nm@1.2nm; Date Acquired 23/10/2010 08:38:56 BST

PEAK RESULTS

	VIAL	RETENTION TIME (MIN.)	AREA	HEIGHT	% AREA	% HEIGHT
01	26	16.223	6209543	157239	9.01	10.22
02	26	16.223	1690292	157239	2.45	10.22
03	26	17.237	8773	43885	0.01	2.85
04	26	25.103	5877273	70826	8.53	4.60
05	26	25.103	1665925	70826	2.42	4.60
06	26	25.983	10127	50649	0.01	3.29
07	26	28.862	11491051	431428	16.68	28.03
08	26	31.073	14740	73769	0.02	4.79
09	26	34.390	7525002	171820	10.92	11.16
10	26	34.390	11859701	171820	17.22	11.16
11	26	37.833	22534737	139723	32.71	9.08

CHROMATOGRAM



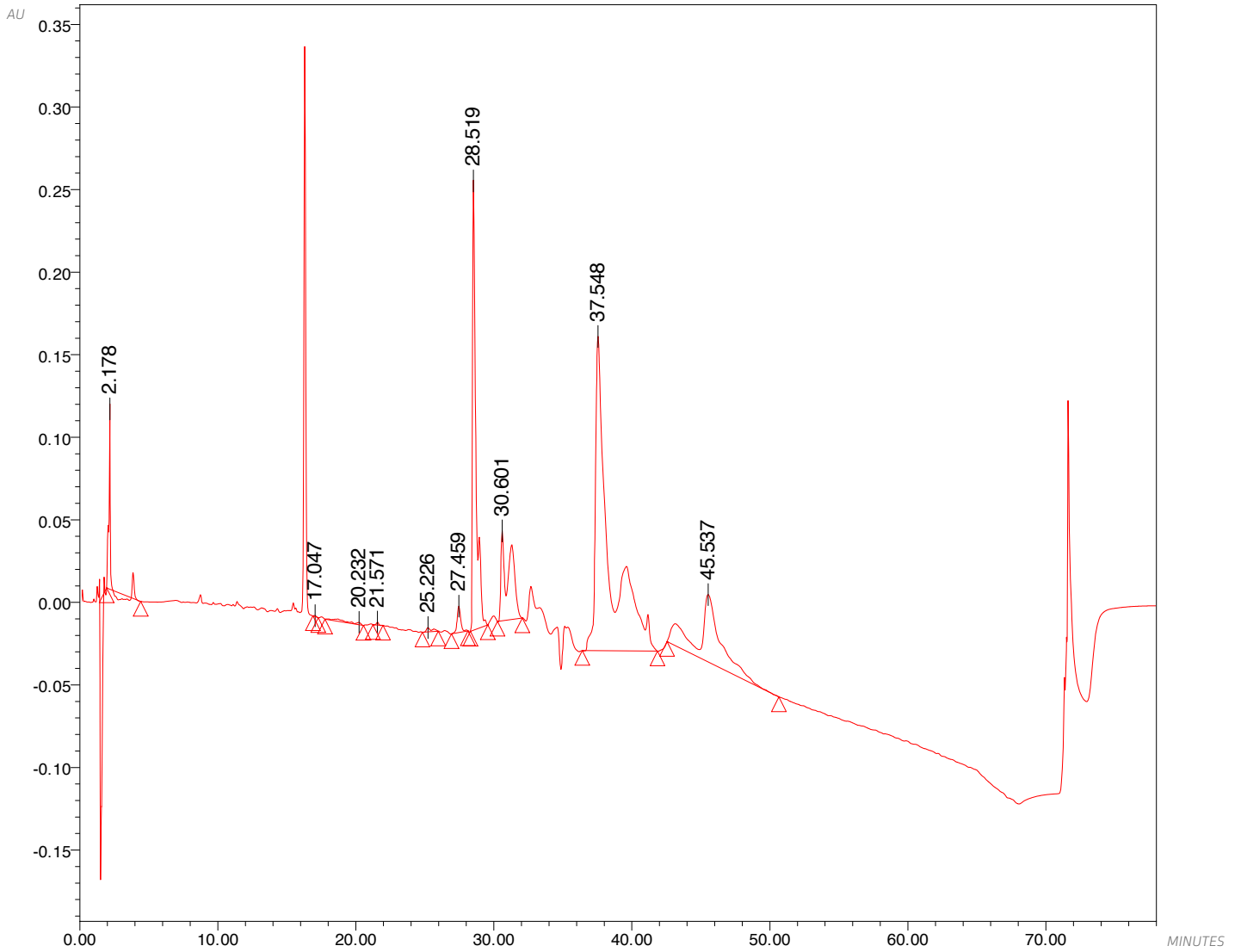
1 Det.A Ch1 / 214nm

(HPLC Column : Macherey Nagel Nucleodur 100-5 C18ec
GRADIENT 0-60% B 60 MIN
A : H2O / 0.1% TFA
B : 90% CH3CN / 10% H2O / 0.1% TFA)

PEAK TABLE

Detector A Ch1 214nm

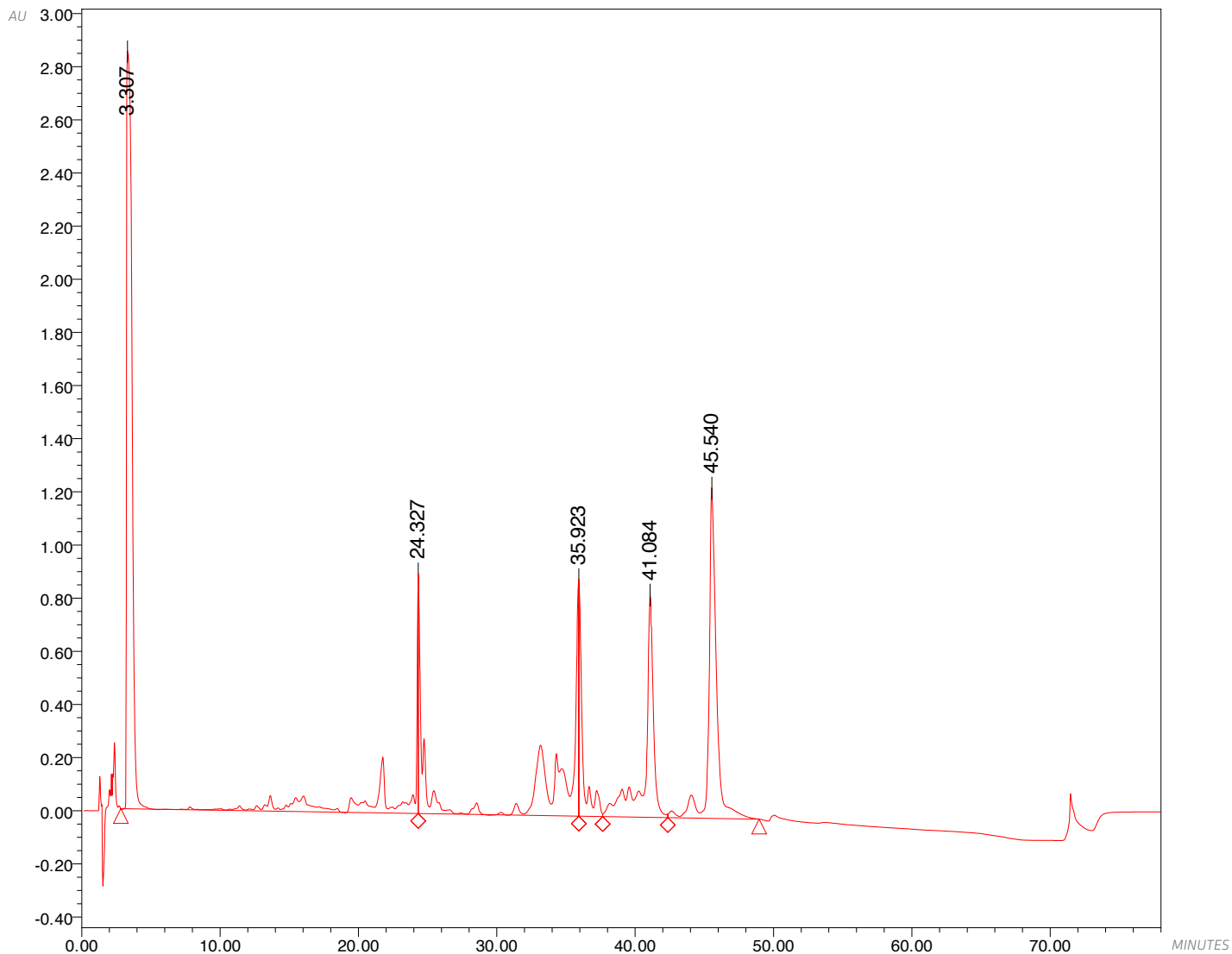
VIAL	RETENTION TIME (MIN.)	AREA	HEIGHT	% AREA	% HEIGHT
1	8.405	259008	17916	1.386	1.296
2	9.859	537338	39614	2.875	2.867
3	10.414	459790	22155	2.460	1.603
4	12.096	5438304	787210	29.100	56.967
5	12.416	1802481	262781	9.645	19.016
6	12.600	232101	36444	1.242	2.637
7	22.315	79503	8673	0.425	0.628
8	28.546	814185	81812	4.357	5.920
9	29.888	455388	43968	2.437	3.182
10	31.585	345076	8453	1.846	0.612
11	34.475	1177406	20108	6.300	1.455
12	35.931	1868525	33667	9.998	2.436
13	47.198	5219264	19064	27.928	1.380
Total		18688369	1381864	100.000	100.000



— AL_LC_CROPS3124_201100; Vial 31; Injection 1; Channel 2998 Ch1 214nm@1.2nm; Date Acquired 23/10/2010 15:16:49 BST

PEAK RESULTS

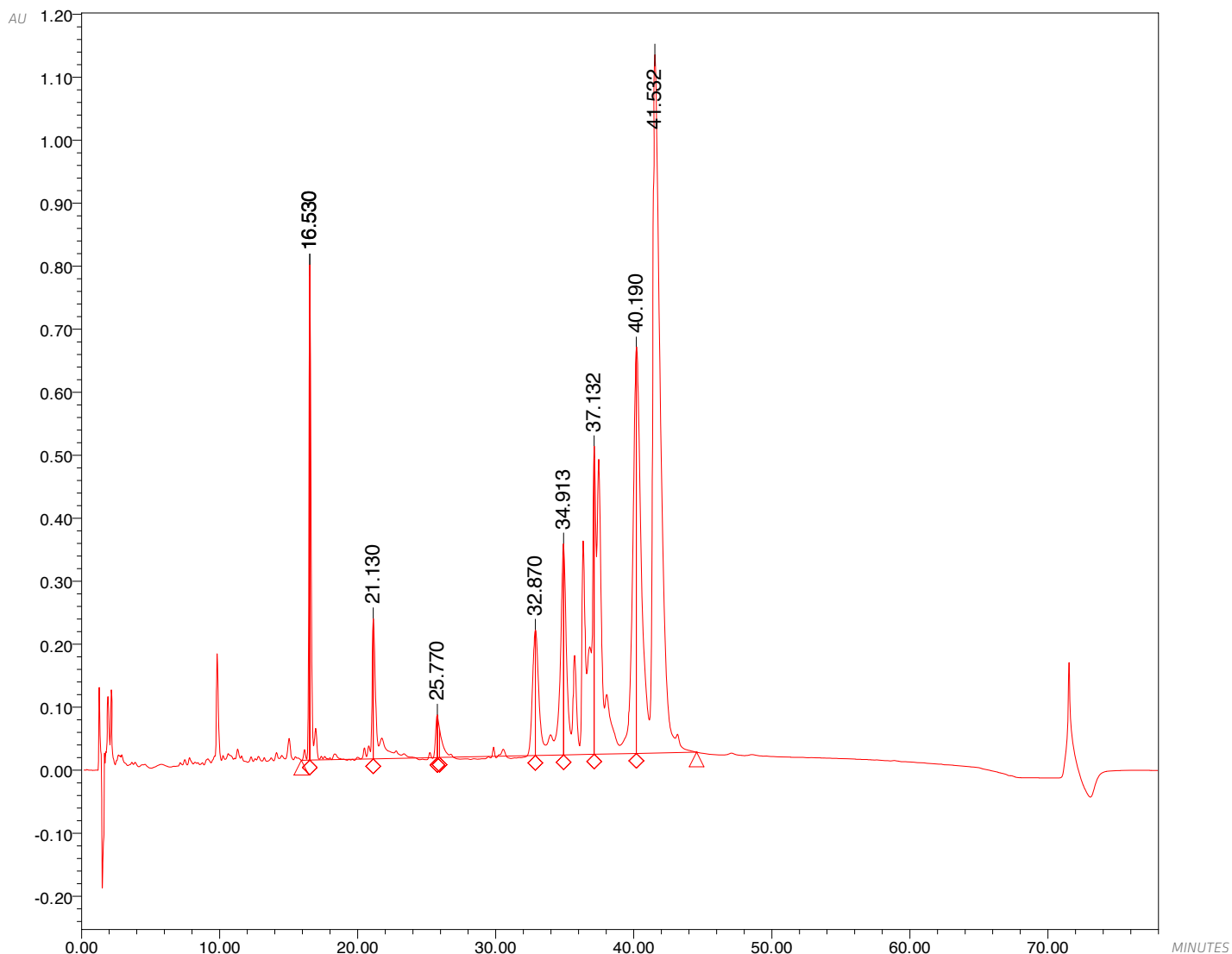
	VIAL	RETENTION TIME (MIN.)	AREA	HEIGHT	% AREA	% HEIGHT
01	31	2.178	1122014	112443	4.26	16.23
02	31	17.047	6334	577	0.02	0.08
03	31	20.232	118462	1418	0.45	0.20
04	31	21.571	20105	1782	0.08	0.26
05	31	25.226	71254	2603	0.27	0.38
06	31	27.459	286221	15974	1.09	2.31
07	31	28.519	4719984	272538	17.93	39.33
08	31	30.601	2396439	54469	9.10	7.86
09	31	37.548	13121874	190328	49.84	27.47
10	31	45.537	4463934	40826	16.96	5.89



— AL_LC_CROPS3404 421.060; Vial 21; Injection 1; Channel 2998 Ch1 214nm@1.2nm; Date Acquired 15/12/2010 01:02:35 GMT

PEAK RESULTS

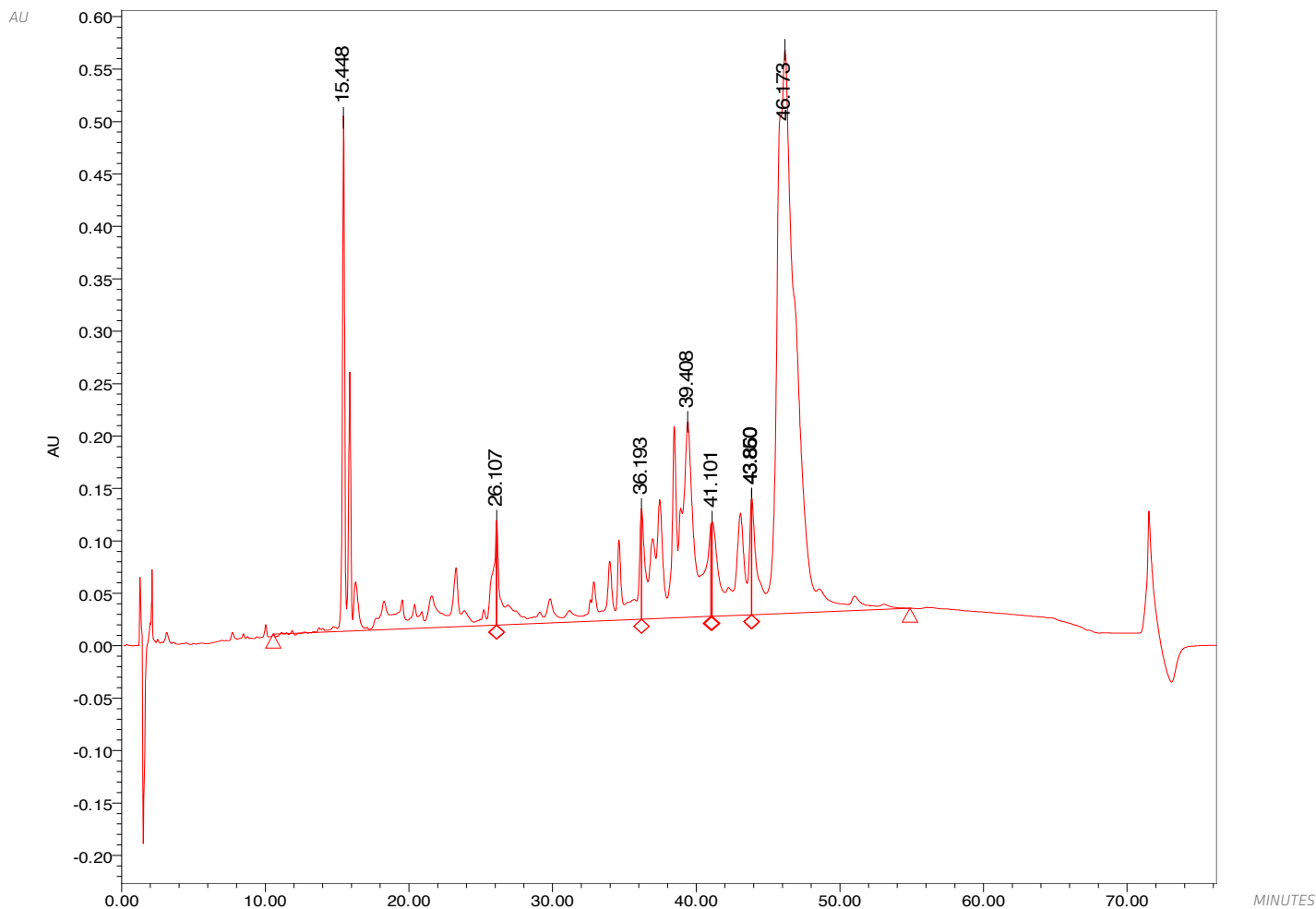
	VIAL	RETENTION TIME (MIN.)	AREA	HEIGHT	% AREA	% HEIGHT
01	21	3.307	103908992	2851911	40.10	42.39
02	21	24.327	55427245	902278	21.39	13.41
03	21	35.923	16402644	892035	6.33	13.26
04	21	41.084	35711355	836964	13.78	12.44
05	21	45.540	47648932	1243846	18.39	18.49



— AL_LC_CROPS3356 501.100; Vial 47; Injection 1; Channel 2998 Ch1 214nm@1.2nm; Date Acquired 01/12/2010 22:33:24 GMT

PEAK RESULTS

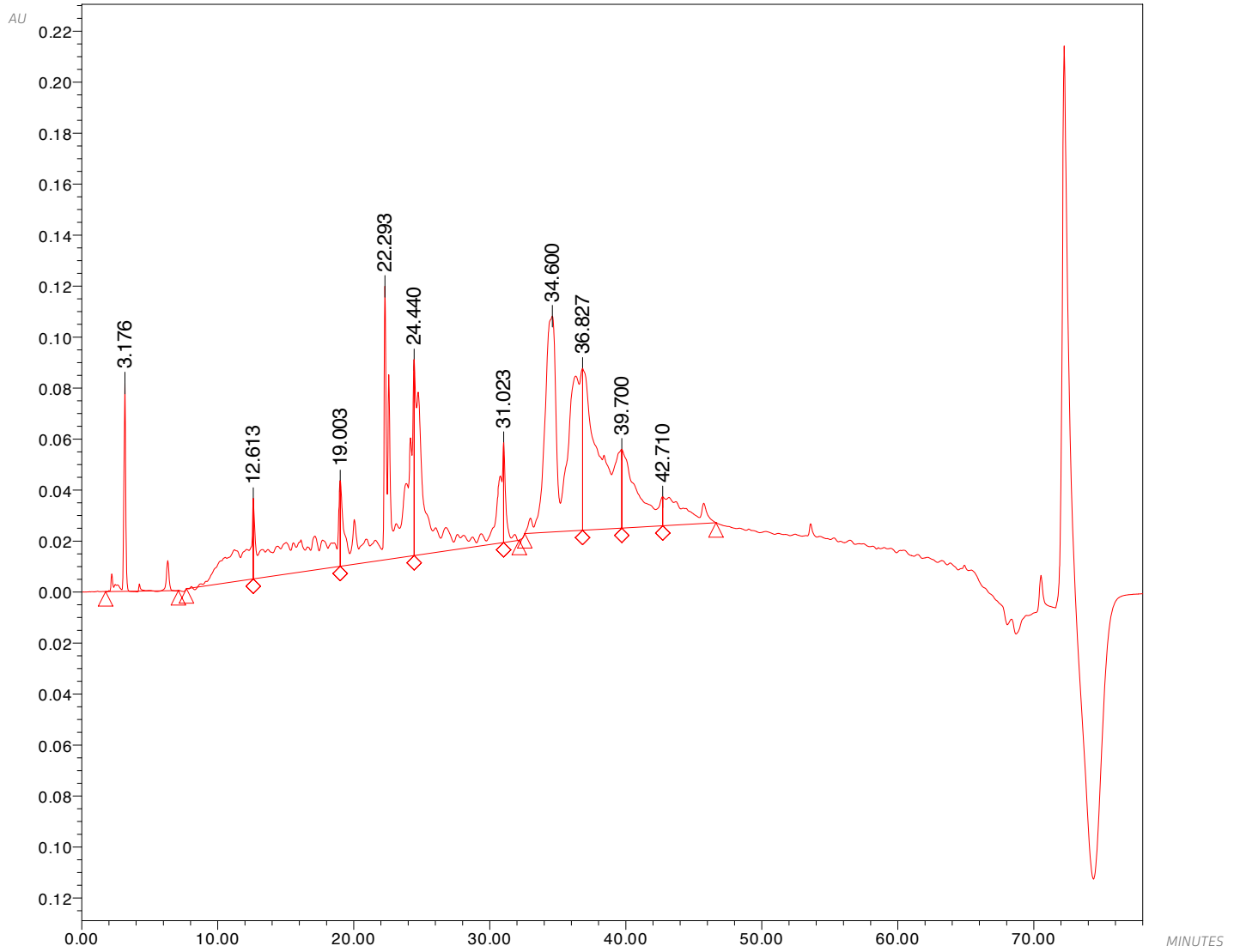
	VIAL	RETENTION TIME (MIN.)	AREA	HEIGHT	% AREA	% HEIGHT
01	47	16.530	3409489	786178	2.47	16.95
02	47	16.530	7670052	786178	5.55	16.95
03	47	21.130	4703080	222441	3.40	4.80
04	47	25.770	537652	67385	0.39	1.45
05	47	32.870	4648501	199231	3.37	4.30
06	47	34.913	9664747	334940	7.00	7.22
08	47	37.132	20233588	489210	14.65	10.55
08	47	40.190	28551766	644636	20.67	13.90
09	47	41.532	58711372	1108469	42.50	23.90



AL_LC_CROPS3433 014.010; Vial 20; Injection 1; Channel 2998 Ch1 214nm@1.2nm; Date Acquired 27/12/2010 22:00:24 GMT

PEAK RESULTS

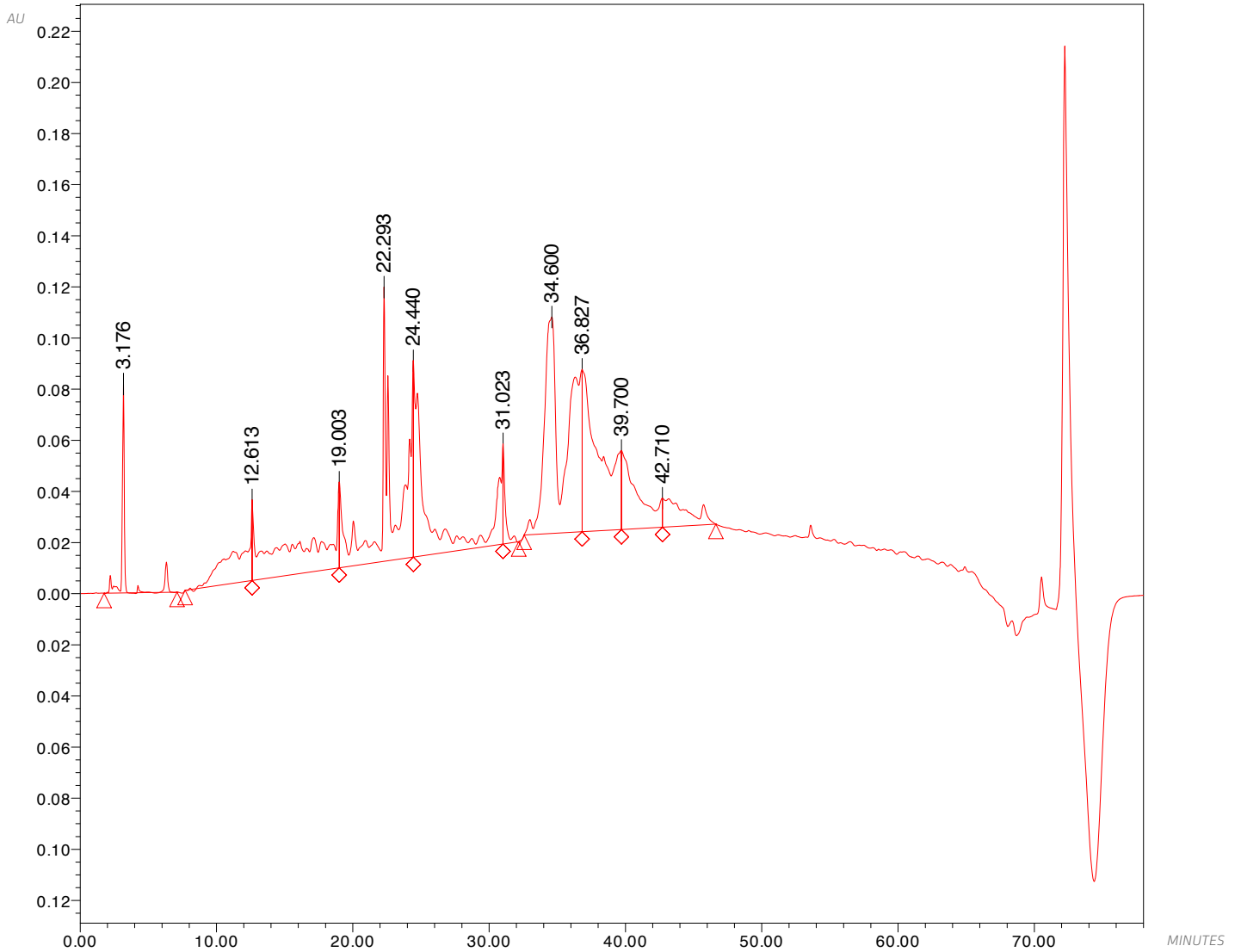
	VIAL	RETENTION TIME (MIN.)	AREA	HEIGHT	% AREA	% HEIGHT
01	20	15.448	18041112	491602	16.47	28.38
02	20	26.107	19894	99481	0.02	5.74
03	20	36.193	9980453	105280	9.11	6.08
04	20	39.408	22297820	186502	20.35	10.77
05	20	41.101	429439	90273	0.39	5.21
06	20	43.850	7937018	110587	7.25	6.38
08	20	43.860	88600	110816	0.08	6.40
08	20	46.173	50755709	537490	46.33	31.03



— AL_LC_CROPS5355 411.011; Vial 109; Injection 1; Channel 2998 Ch1 214nm@1.2nm; Date Acquired 10/12/2011 12:34:21 AM CEST

PEAK RESULTS

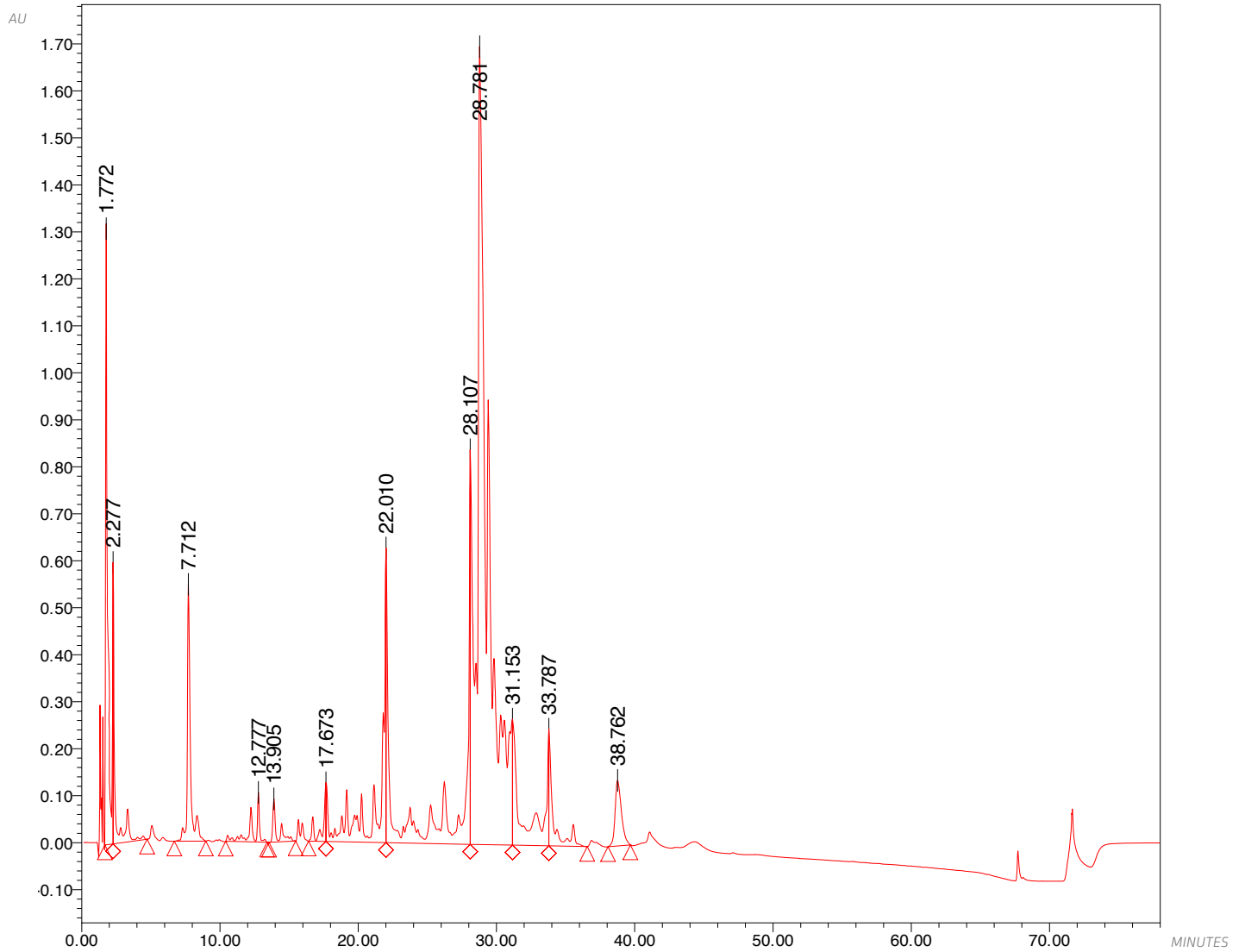
	VIAL	RETENTION TIME (MIN.)	AREA	HEIGHT	% AREA	% HEIGHT
01	109	3.176	1072879	81825	2.87	14.59
02	109	12.613	2017018	31526	5.40	5.62
03	109	19.003	4169263	33560	11.16	5.98
04	109	22.293	6025560	107307	16.13	19.14
05	109	24.440	4853584	76836	12.99	13.70
06	109	31.023	456639	39223	1.22	6.99
08	109	34.600	9052103	84682	24.23	15.10
08	109	36.827	5798518	63507	15.52	11.33
09	109	39.700	2528054	30900	6.77	5.51
10	109	42.710	1391038	11372	3.72	2.03



— AL_LC_CROPS3434 425.000; Vial 19; Injection 1; Channel 2998 Ch1 214nm@1.2nm; Date Acquired 27/12/2010 23:20:00 GMT

PEAK RESULTS

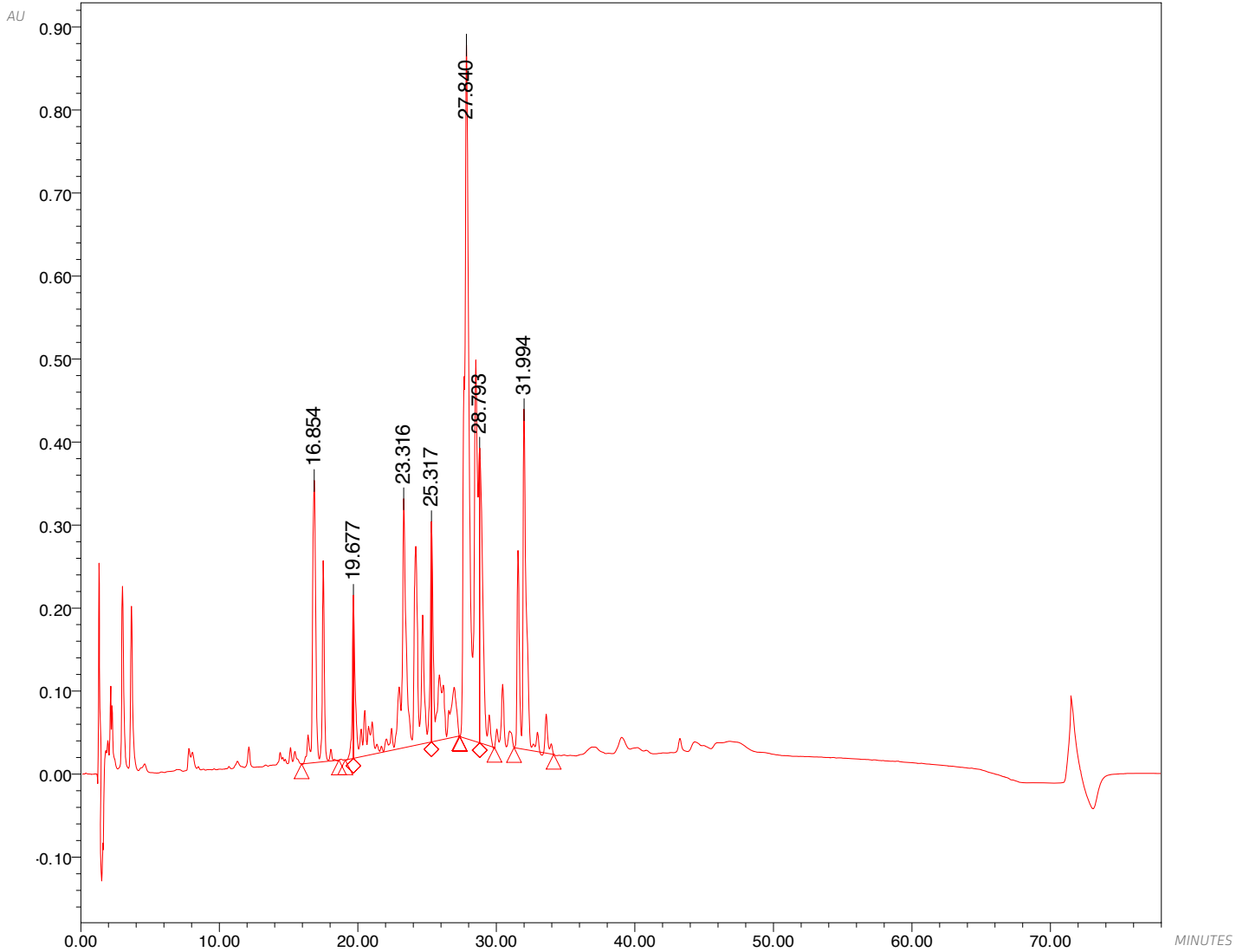
	VIAL	RETENTION TIME (MIN.)	AREA	HEIGHT	% AREA	% HEIGHT
01	19	15.467	1253586	165367	1.31	6.63
02	19	31.687	14697750	623859	15.37	25.00
03	19	33.435	39622675	1002641	41.44	40.18
04	19	37.223	16689076	448831	17.45	17.99
05	19	41.070	109444	91307	0.11	3.66
06	19	46.479	23245536	163563	24.31	6.55



— AL_LC_CROPS3330 121.040; Vial 39; Injection 1; Channel 2998 Ch1 214nm@1.2nm; Date Acquired 27/11/2010 13:24:03 GMT

PEAK RESULTS

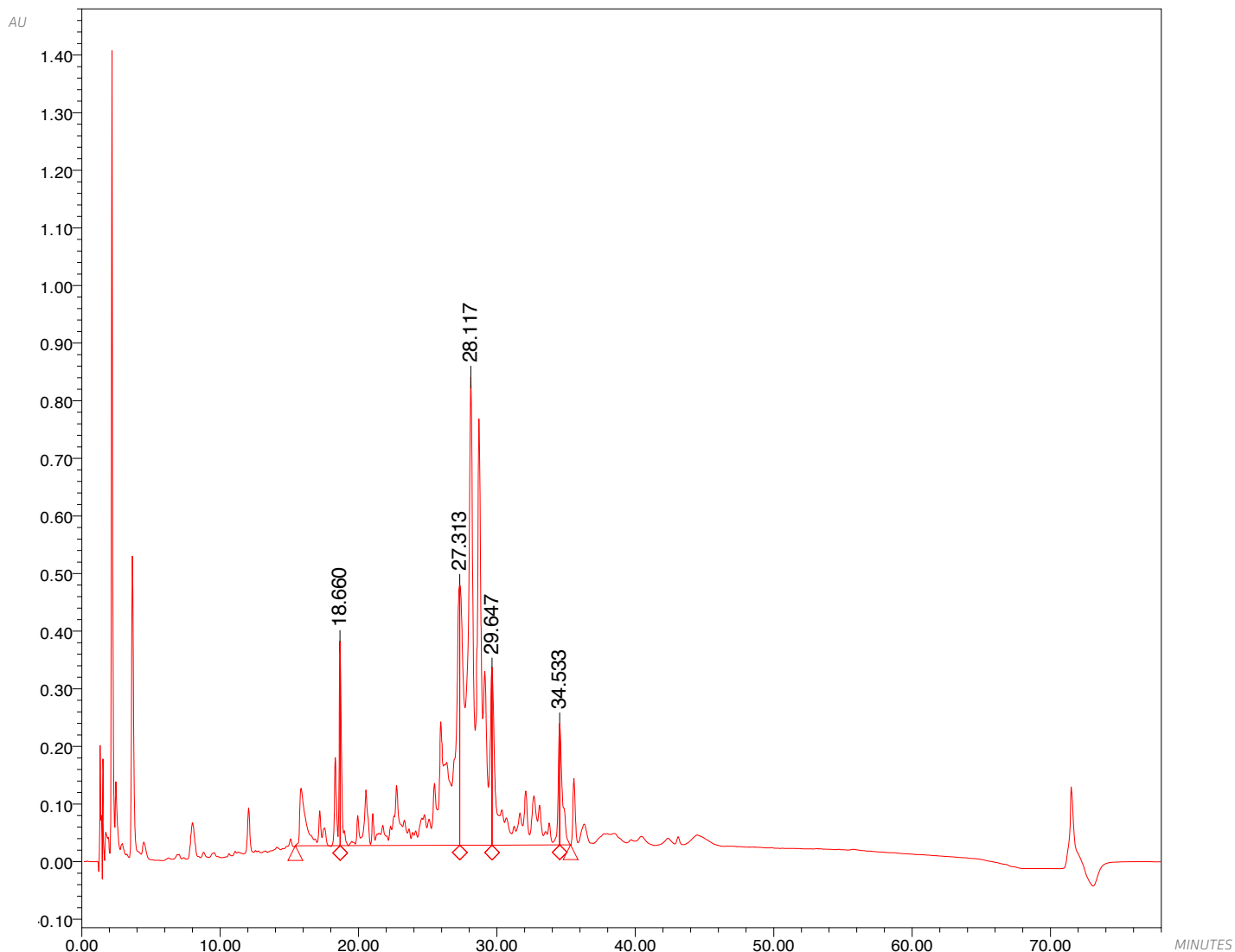
	VIAL	RETENTION TIME (MIN.)	AREA	HEIGHT	% AREA	% HEIGHT
01	39	1.772	14364855	1322375	7.67	19.99
02	39	2.277	4837156	598880	2.58	9.05
03	39	7.712	8431372	548513	4.50	8.29
04	39	12.777	2573279	105602	1.37	1.60
05	39	13.905	1804080	92022	0.96	1.39
06	39	17.673	1891251	124976	1.01	1.89
07	39	22.010	15025504	627314	8.02	9.48
08	39	28.107	23865321	839532	12.75	12.69
09	39	28.781	93588753	1698512	49.98	25.68
10	39	31.153	11484774	268100	6.13	4.05
11	39	33.787	4924542	248123	2.63	3.75
12	39	38.762	4451238	139885	2.38	2.12



— AL_LC_CROPS3352 100.140; Vial 43; Injection 1; Channel 2998 Ch1 214nm@1.2nm; Date Acquired 01/12/2010 17:15:08 GMT

PEAK RESULTS

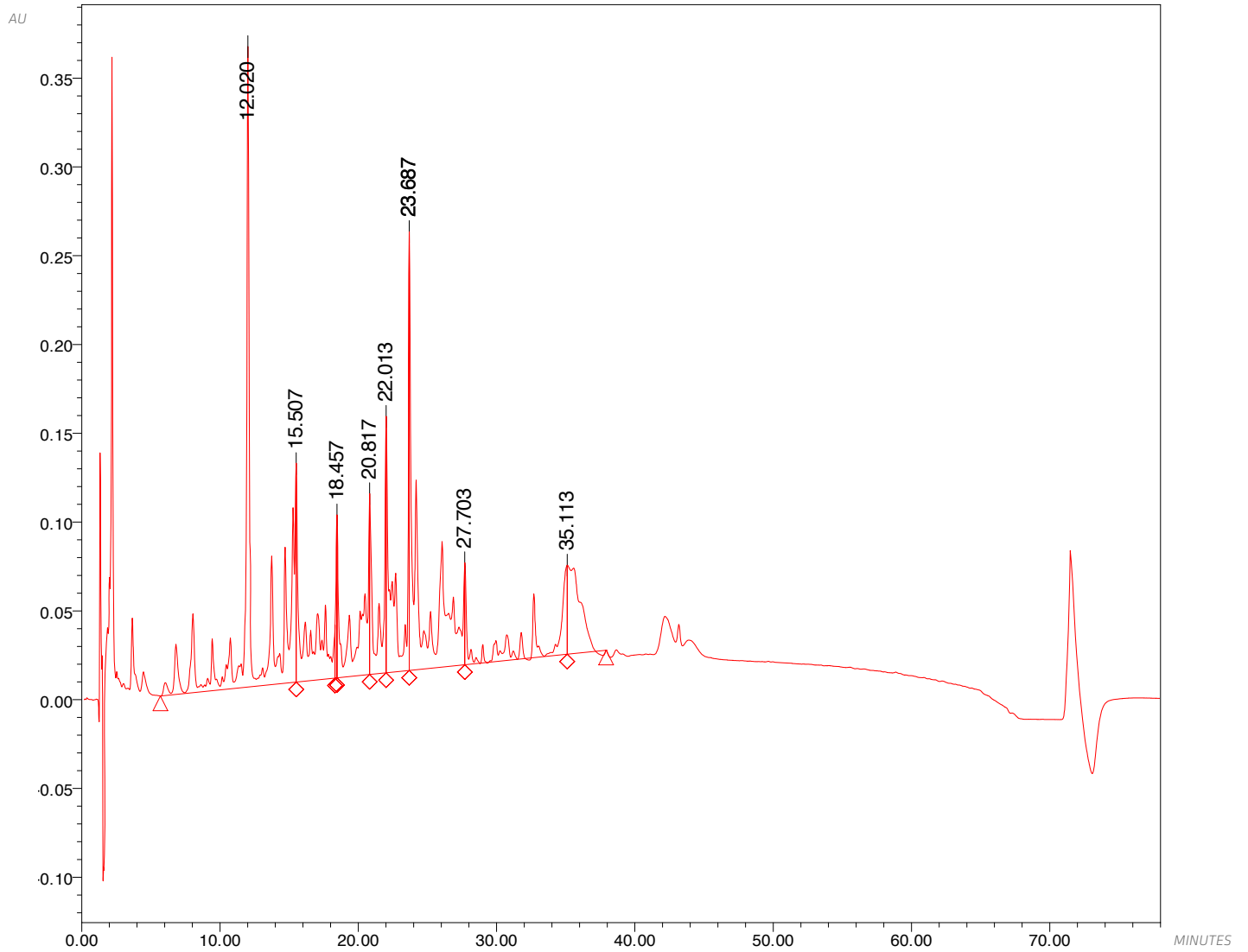
	VIAL	RETENTION TIME (MIN.)	AREA	HEIGHT	% AREA	% HEIGHT
01	43	16.854	8109293	339959	10.54	12.58
02	43	19.677	999792	196345	1.30	7.27
03	43	23.316	18065824	299952	23.48	11.10
04	43	25.317	6166713	265293	8.02	9.82
05	43	27.840	27857898	835925	36.21	30.94
06	43	28.793	5658140	354901	7.35	13.13
07	43	31.994	10072315	409705	13.09	15.16



— AL_LC_CROPS3357 711.140; Vial 49; Injection 1; Channel 2998 Ch1 214nm@1.2nm; Date Acquired 01/12/2010 23:53:13 GMT

PEAK RESULTS

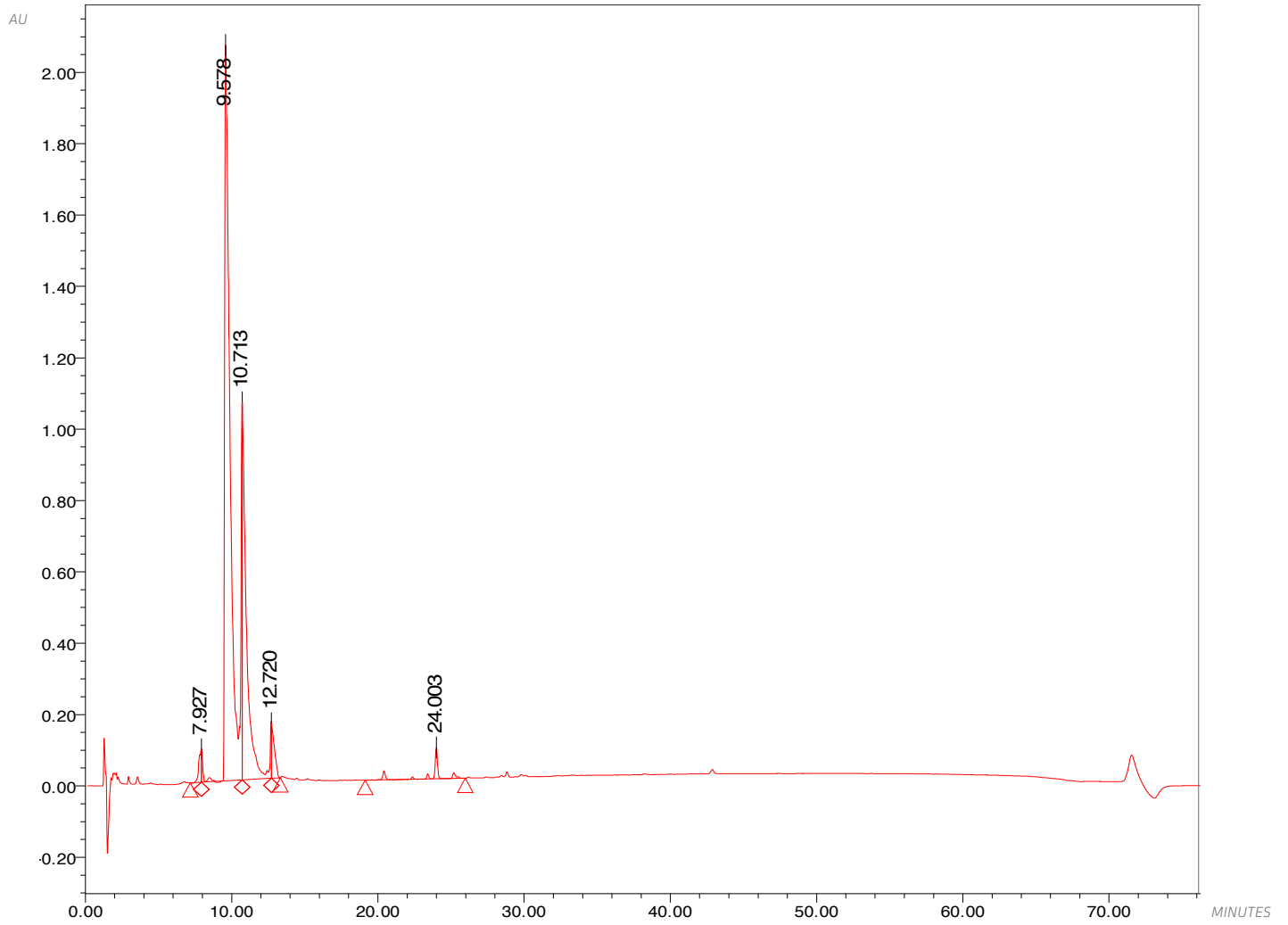
	VIAL	RETENTION TIME (MIN.)	AREA	HEIGHT	% AREA	% HEIGHT
01	49	18.660	7149005	354667	6.81	16.60
02	49	27.313	31119166	451227	29.66	21.12
03	49	28.117	48947625	812438	46.65	38.03
04	49	29.647	14849661	307807	14.15	14.41
05	49	34.533	2865416	210395	2.73	9.85



— AL_LC_CROPS3355 329.030; Vial 46; Injection 1; Channel 2998 Ch1 214nm@1.2nm; Date Acquired 01/12/2010 21:13:53 GMT

PEAK RESULTS

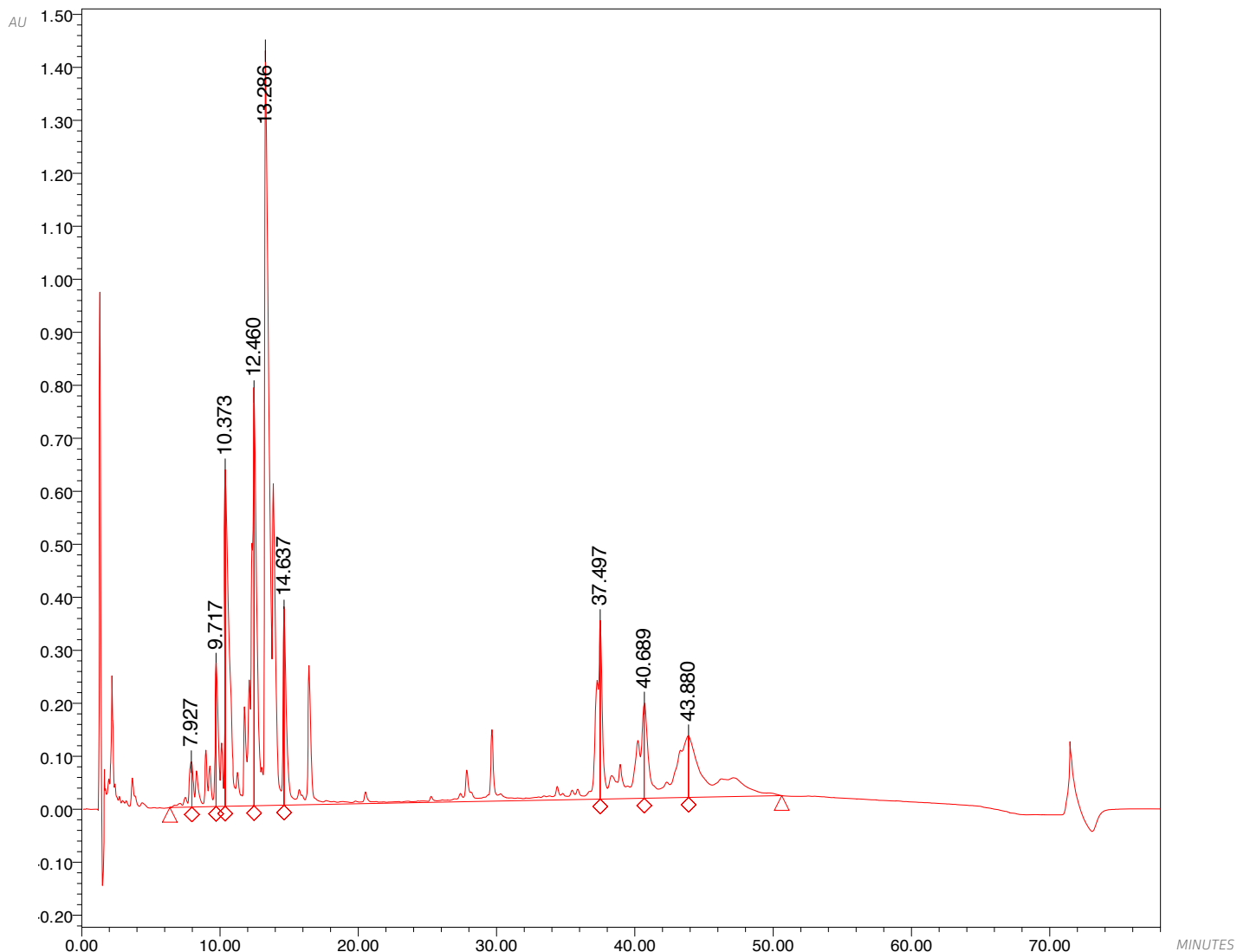
	VIAL	RETENTION TIME (MIN.)	AREA	HEIGHT	% AREA	% HEIGHT
01	46	12.020	12.020	360700	28.70	25.34
02	46	15.507	15.507	123242	9.47	8.66
03	46	18.457	18.457	91676	1.18	6.44
04	46	20.817	20.817	101831	8.64	7.15
05	46	22.013	22.013	144345	6.21	10.14
06	46	23.687	23.687	247066	10.14	17.36
07	46	23.687	23.687	247066	19.87	17.36
08	46	27.703	27.703	57342	7.90	4.03
09	46	35.113	35.113	50150	7.88	3.52



— AL_LC_CROPS3436 316.060; Vial 17; Injection 1; Channel 2998 Ch1 214nm@1.2nm; Date Acquired 28/12/2010 01:59:15 GMT

PEAK RESULTS

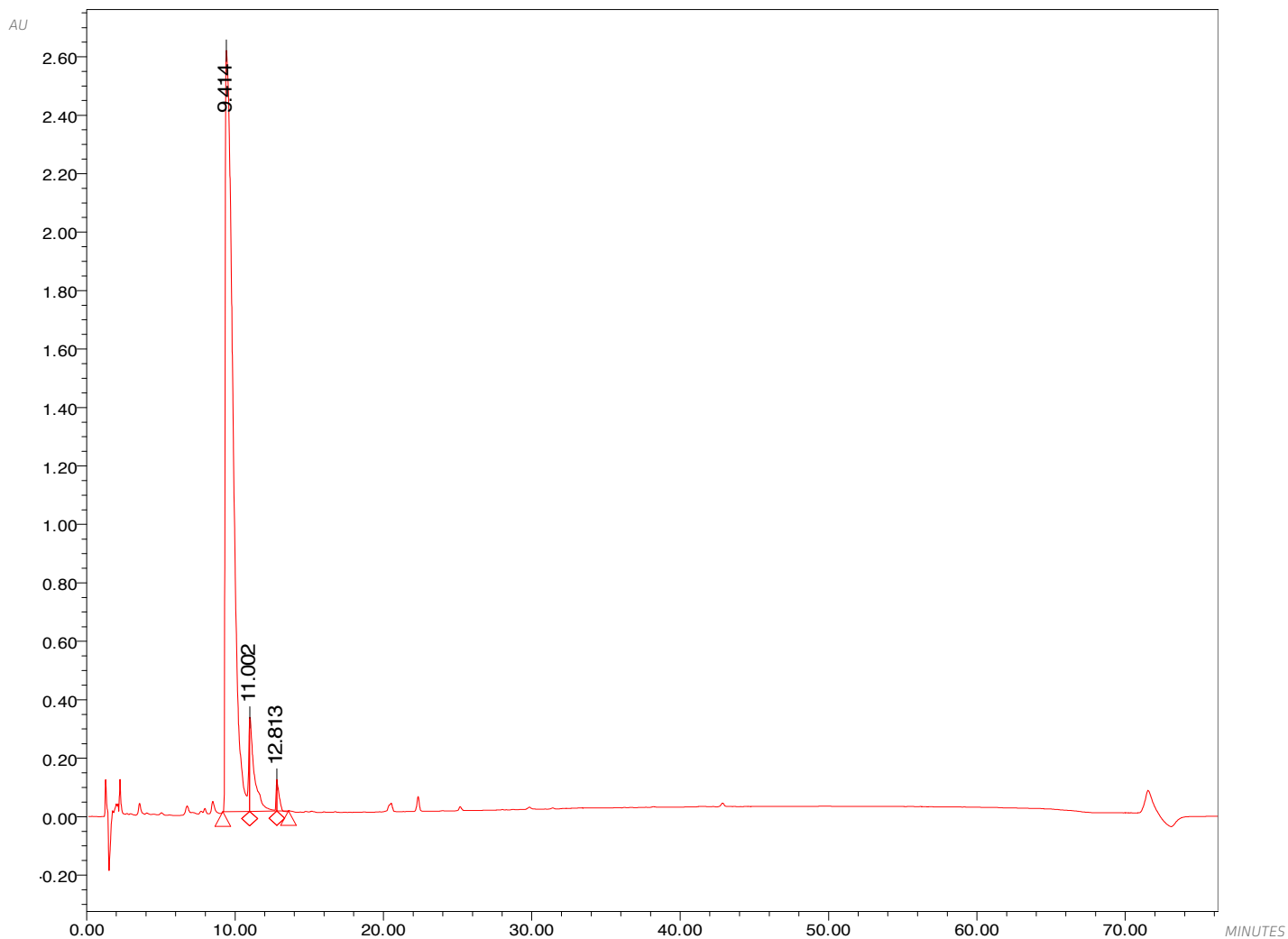
	VIAL	RETENTION TIME (MIN.)	AREA	HEIGHT	% AREA	% HEIGHT
01	17	7.927	1082136	93582	1.28	2.71
02	17	9.578	57249906	2062256	67.93	59.67
03	17	10.713	22065570	1058151	26.18	30.62
04	17	12.720	2153157	154410	2.55	4.47
05	17	24.003	1723879	87745	2.05	2.54



— AL_LC_CROPS3351 OB2.603 ; Vial 42; Injection 1; Channel 2998 Ch1 214nm@1.2nm; Date Acquired 01/12/2010 15:55:32 GMT

PEAK RESULTS

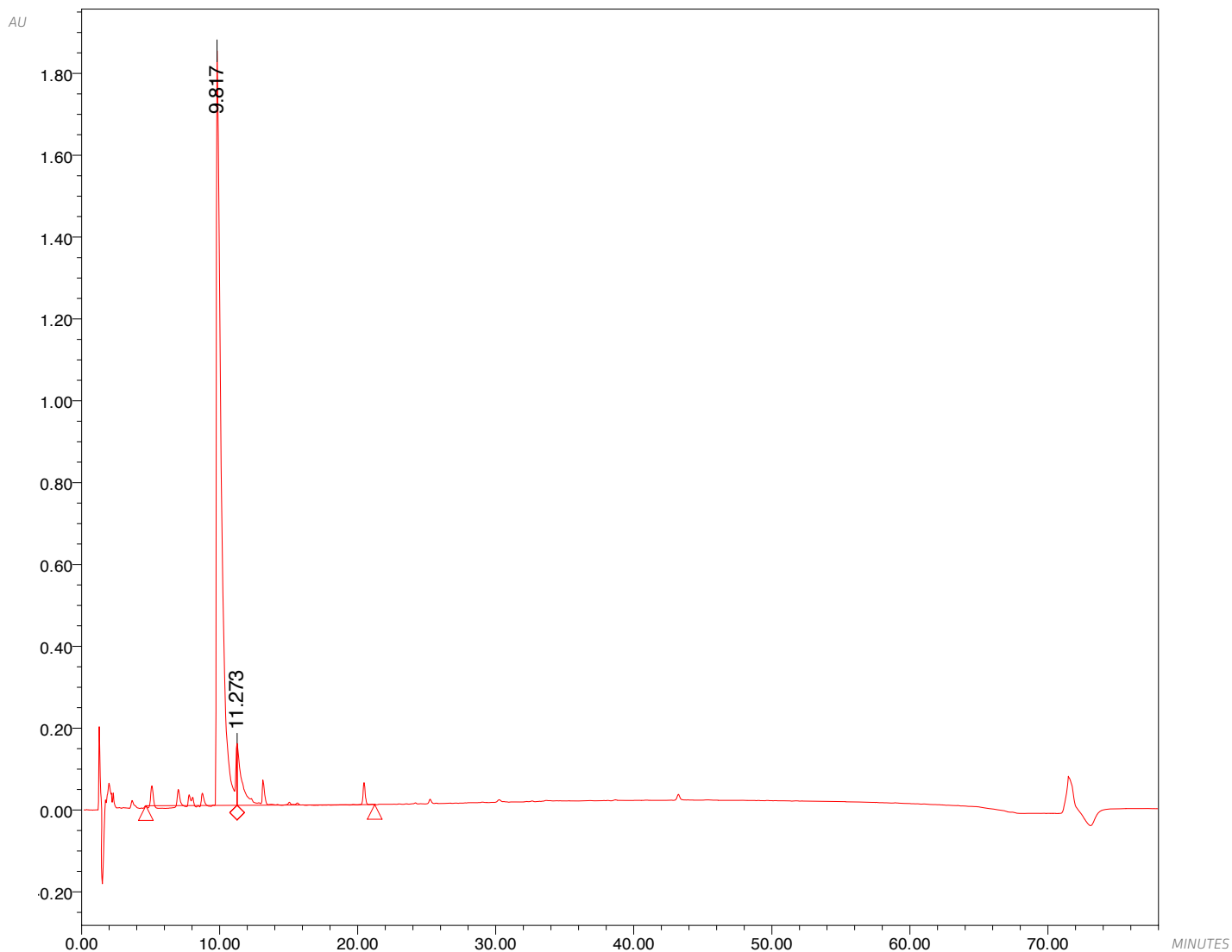
	VIAL	RETENTION TIME (MIN.)	AREA	HEIGHT	% AREA	% HEIGHT
01	42	7.927	1521106	85567	1.03	2.03
02	42	9.717	5060803	270742	3.44	6.44
03	42	10.373	6196035	635081	4.21	15.10
04	42	12.460	25150640	788369	17.09	18.74
05	42	13.286	51184967	1424290	34.78	33.86
06	42	14.637	24161140	369661	16.42	8.79
07	42	37.497	11958815	336715	8.12	8.00
08	42	40.689	10722547	179740	7.28	4.27
09	42	43.880	11231554	116183	7.63	2.76



— AL_LC_CROPS3435 822.100; Vial 18; Injection 1; Channel 2998 Ch1 214nm@1.2nm; Date Acquired 28/12/2010 00:39:39 GMT

PEAK RESULTS

	VIAL	RETENTION TIME (MIN.)	AREA	HEIGHT	% AREA	% HEIGHT
01	18	9.414	95150029	2604463	91.81	85.84
02	18	11.002	7352562	322210	7.09	10.62
03	18	12.813	1133386	107406	1.09	3.54



— AL_LC_CROPS3353 313.060; Vial 44; Injection 1; Channel 2998 Ch1 214nm@1.2nm; Date Acquired 01/12/2010 18:34:44 GMT

PEAK RESULTS

	VIAL	RETENTION TIME (MIN.)	AREA	HEIGHT	% AREA	% HEIGHT
01	44	9.817	47454130	1843872	90.25	92.46
02	44	11.273	5129228	150331	9.75	7.54