NURUOSMANİYE Kültür Turizm ve Ticaret Limited Şirketi
DATU Laboratuvarı

KEYAP SİTESİ A2 Blok No: 14
34775 Y.Dudullu/Ümraniye - İstanbul

DATU
26017
11-26

Analiz Raporu
Report of Analysis

Müşterinin Adı/Adresi *Customer Name/Address*	:	SINIRLI SORUMLU KULP KOZA ÜRETİCİLERİ ÜRETİM VE PAZARLAMA KOOPERATİFİ
Rapor Numarası *Report No.*	:	26017
Analizi Yapılan Numunenin Adı ve Tarifi *Name and Identity of Test Item*	:	**26017-01** KIRMIZI BOYAMA **26017-02** PEMBE BOYAMA **26017-03** SARI BOYAMA **26017-04** KAHVERENGİ BOYAMA **26017-05** SİYAH BOYAMA
Numunenin Alınma Tarihi *The Date of Receipt of Test Item*	:	-
Açıklamalar *Remarks*	:	5 adet numune
Numune Kabul Tarihi ve Şekli *Sample taking date and method*	:	-
Numuneyi Kabul Eden Kişinin Adı *Sample taker's name*	:	Aleyna ÖZDEMİR
Analizin Yapıldığı Tarih *Date of Test*	:	-
Raporun Sayfa Sayısı *Number of Pages of the Report*	:	**34** — **Raporun Nüsha sayısı** *Number of copies of the report* : **3**

Test ve /veya ölçüm sonuçları, genişletilmiş ölçüm belirsizlikleri (olması halinde) ve test metodları bu sertifikanın tamamlayıcı kısmı olan takip eden sayfalarda verilmiştir.
The testing and/or measurement results, the uncertainties (if applicable) with confidence probability and test methods are given on the following pages which are part of this report.
Analiz sonuçları yalnızca deneyi yapılan numunelerle ilgilidir.
The results are related only to the items tested.

Mühür *Seal*	**Tarih** *Date*	**Analizi Yapan** *Makes Analysis*	**Laboratuvar Müdürü** *Head of Laboratory*
DATU LABORATUVARI	05.11.2026	Aleyna ÖZDEMİR	Pınar ÇANDIR

Bu rapor, laboratuvarın yazılı izni olmadan kısmen kopyalanıp çoğaltılamaz. İmzasız ve mühürsüz raporlar geçersizdir.
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KONU: 6 adet numunenin analizi.

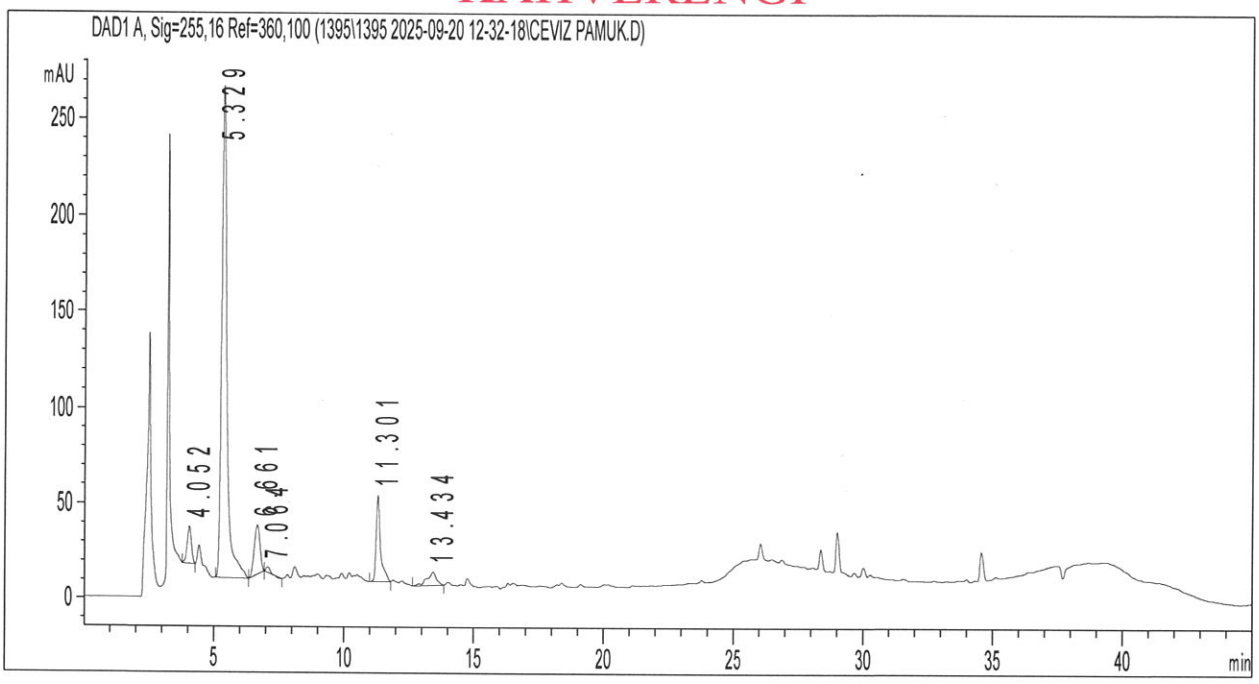
YÖNTEMLER:

- HPLC (High Performance Liquid Chromatography) ile Kalitatif Boyarmadde Analizi
- SEM-EDX (Scanning Electron Microscope with Energy Dispersive X-ray Spectroscopy) ile Yapı Tayini ve Elementel Analiz (Karbon Kaplamalı)
- CIELAB İle Renk Ölçüm Analizi

ANALİZ SONUÇLARI

HPLC (High Performance Liquid Chromatography) ile Kalitatif Boyarmadde Analizi

KAHVERENGİ



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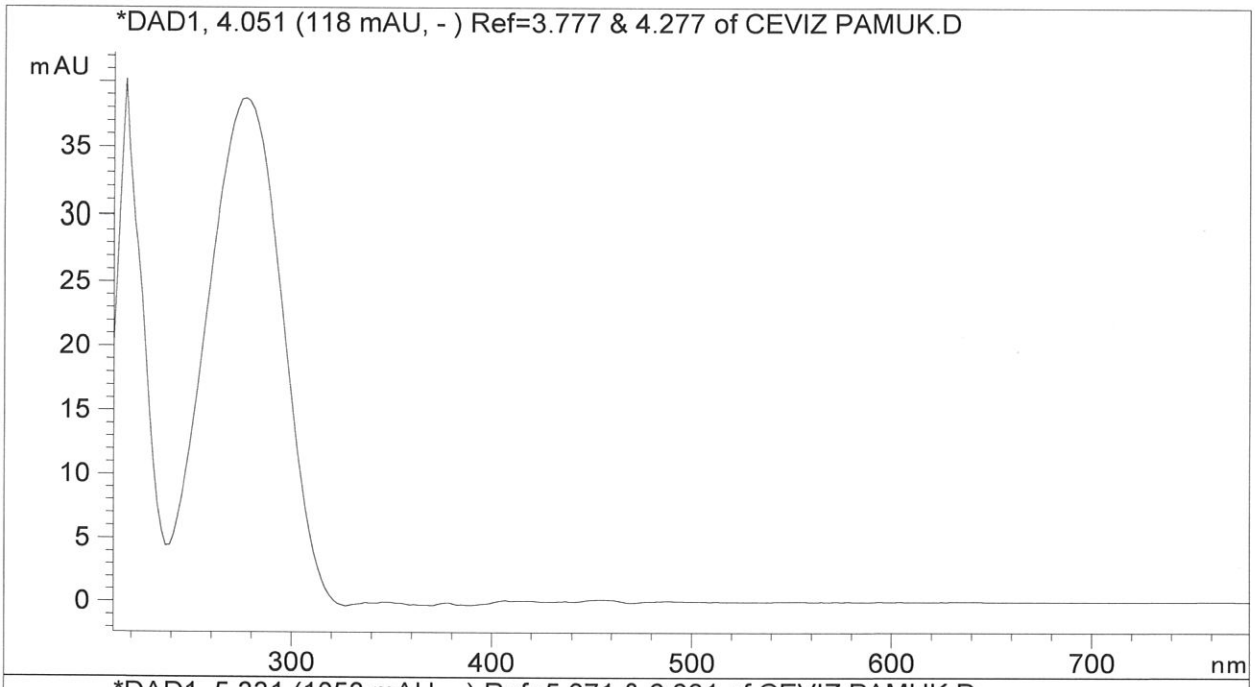

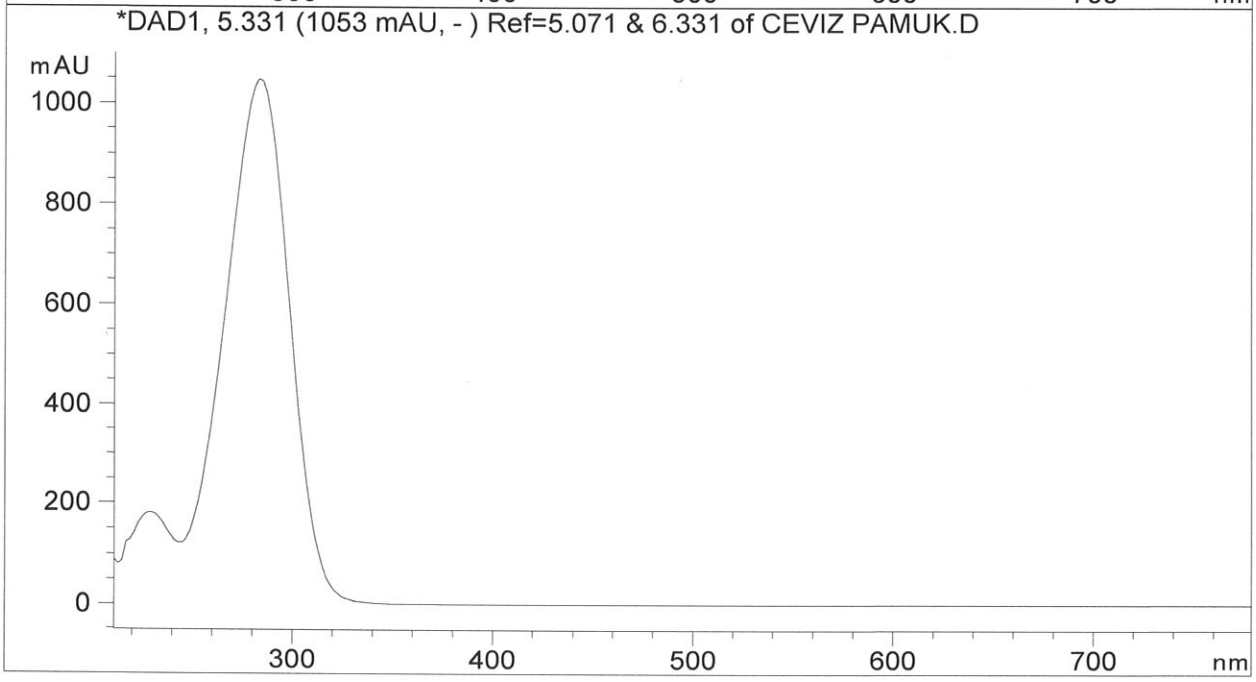

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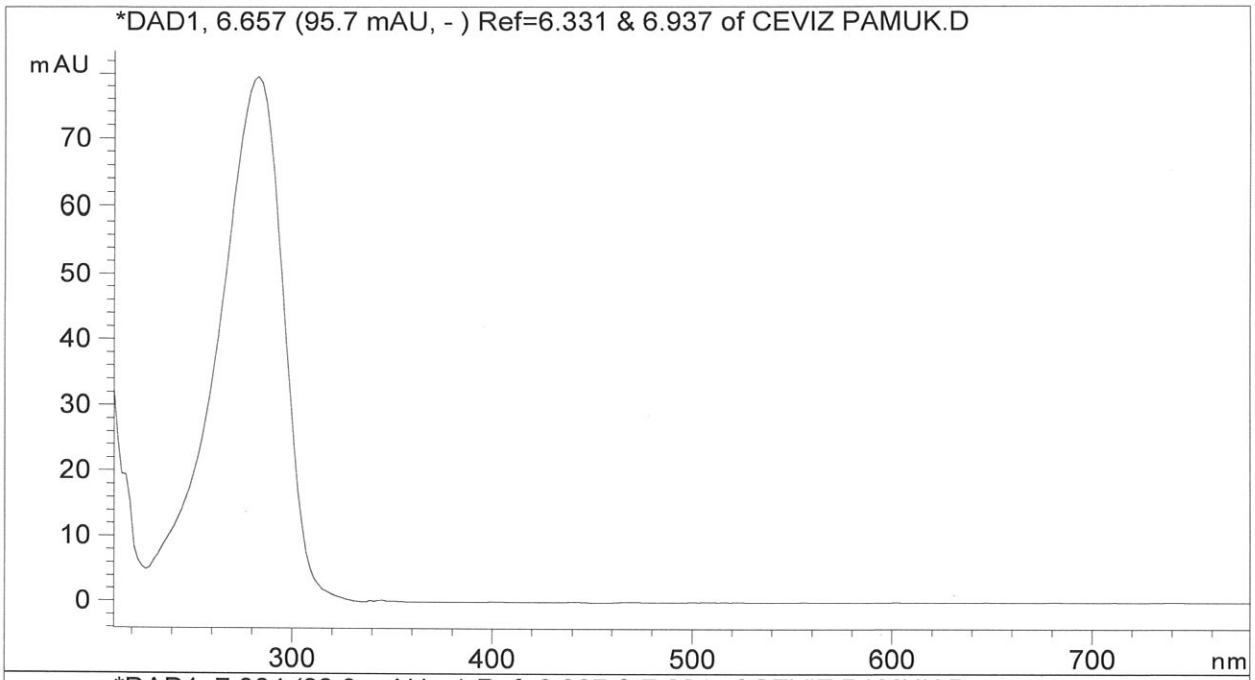

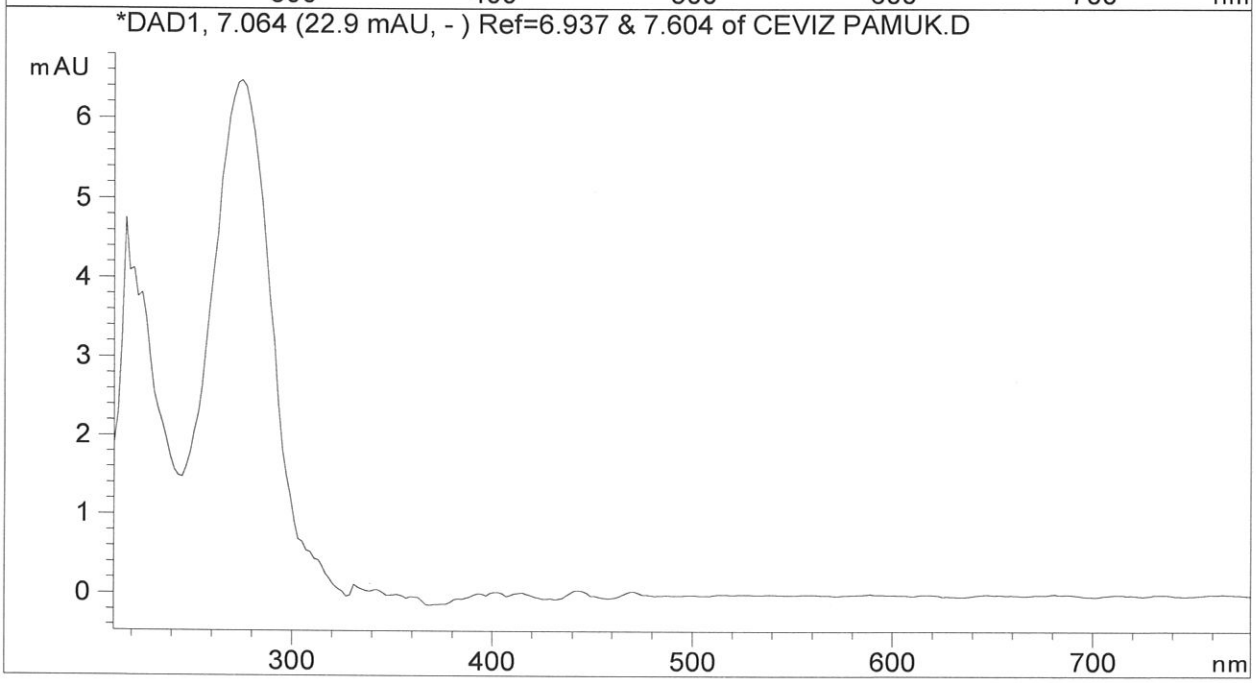

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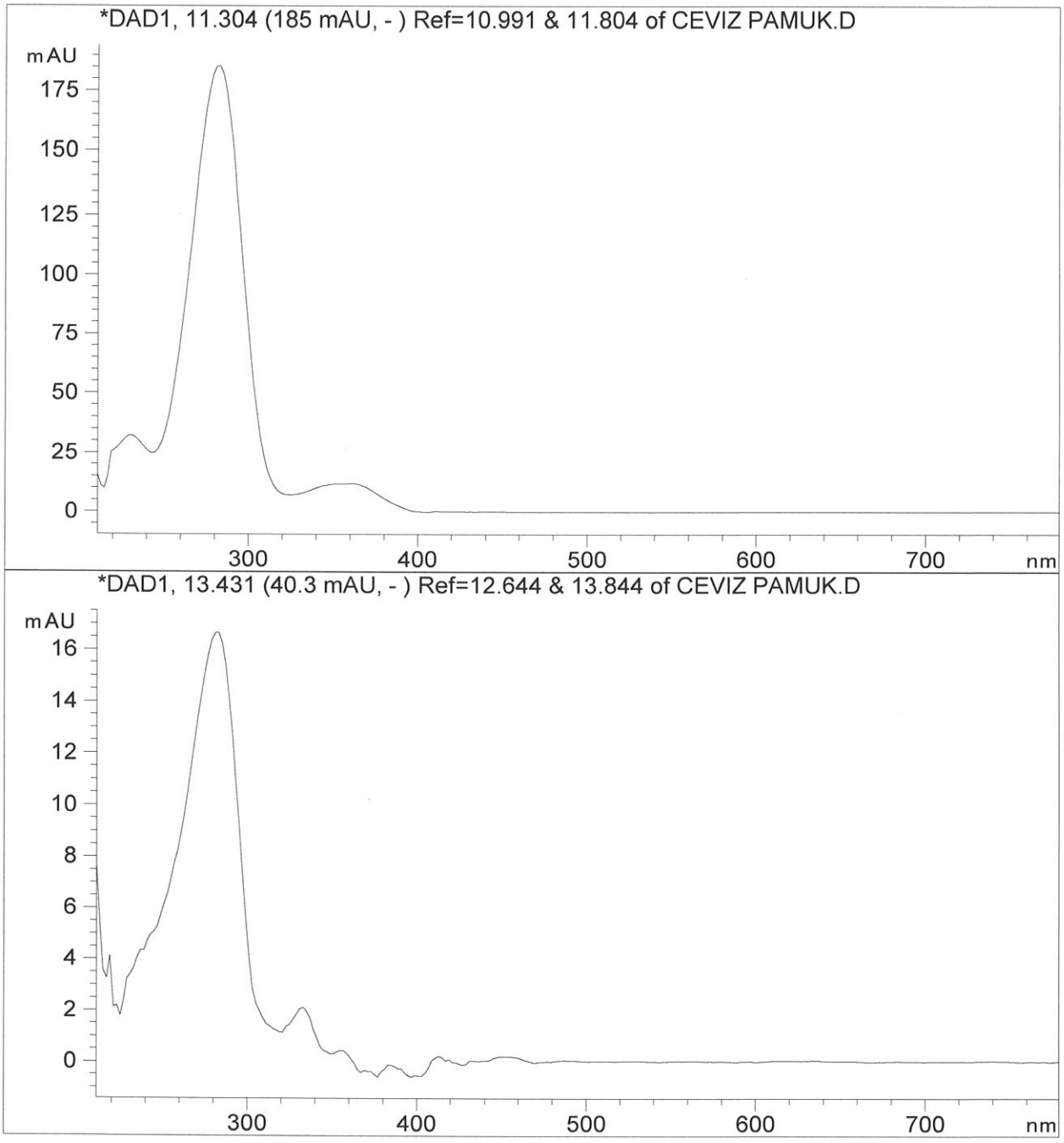

KIRMIZI

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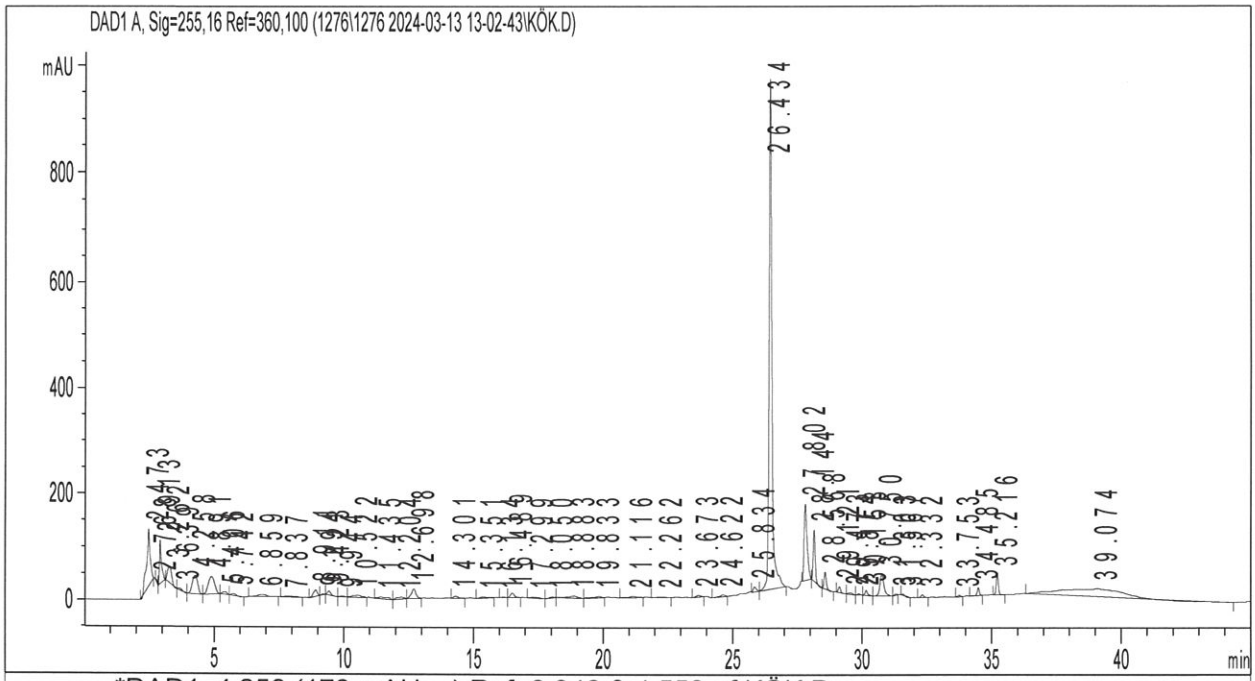

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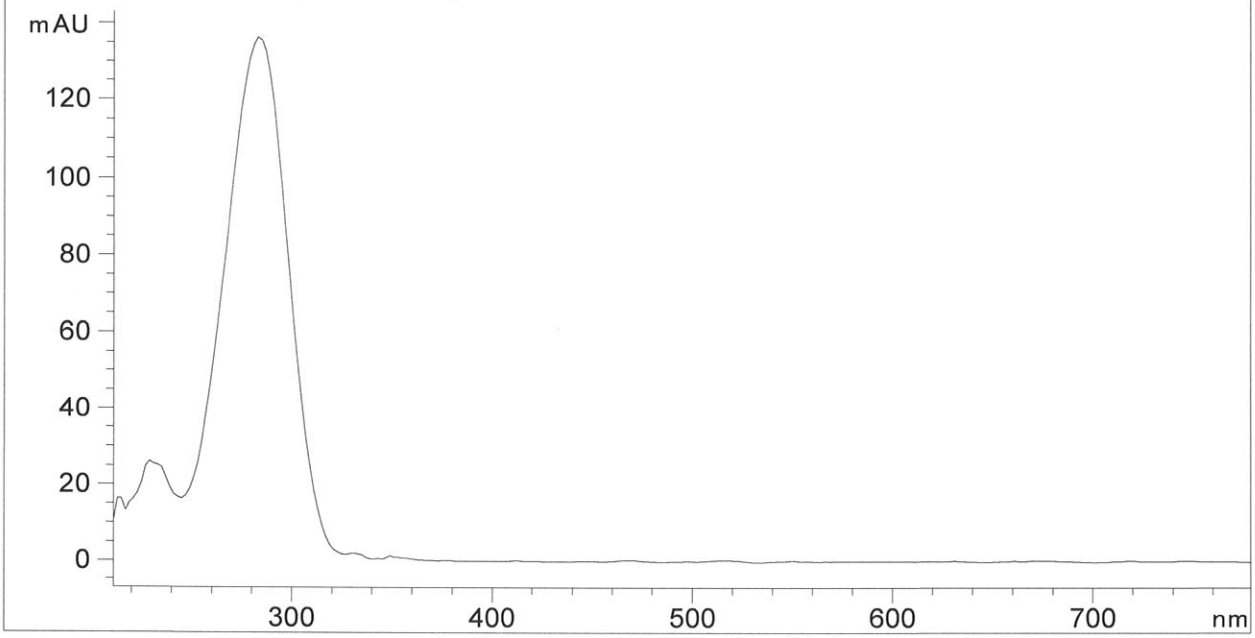

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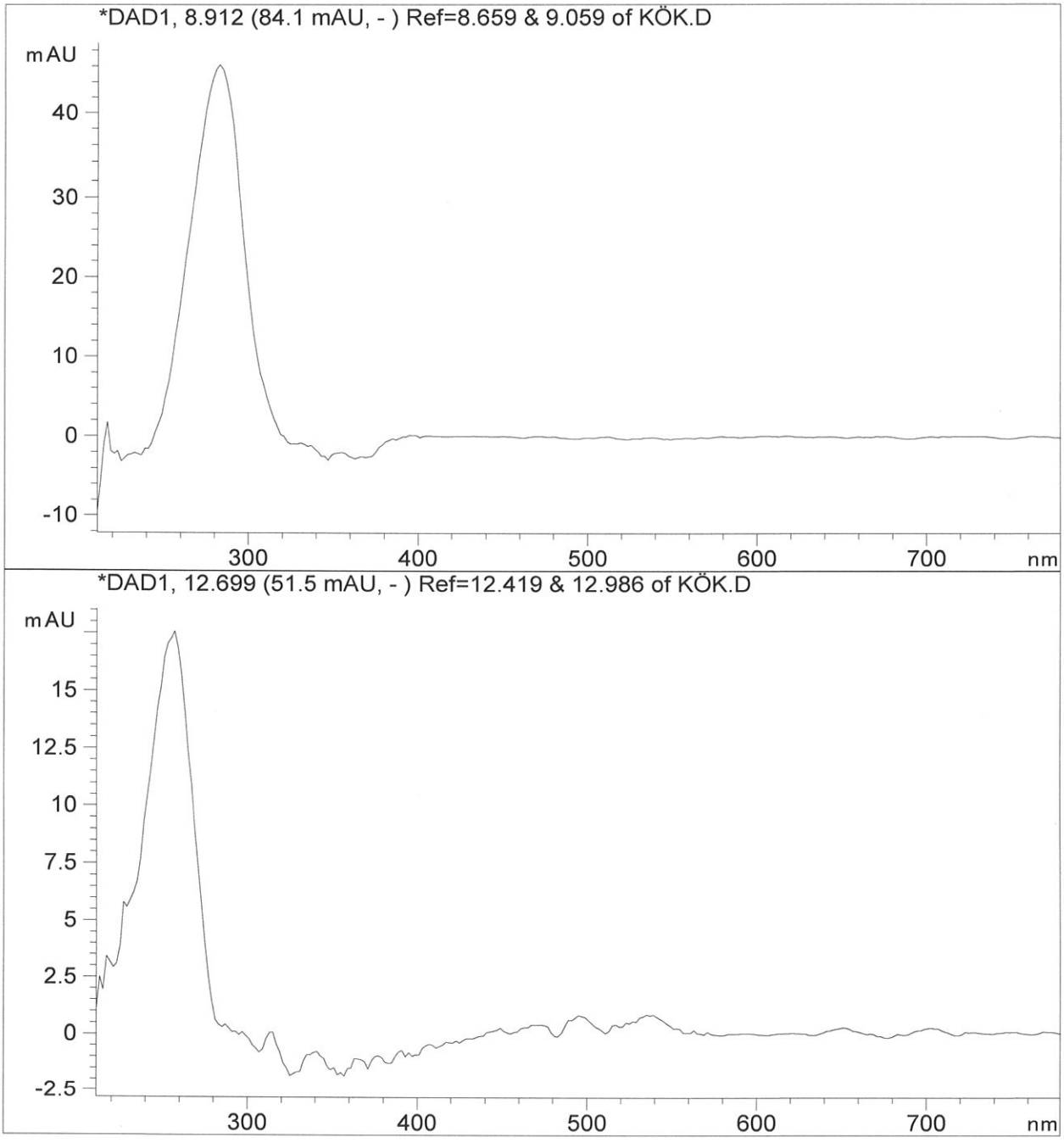

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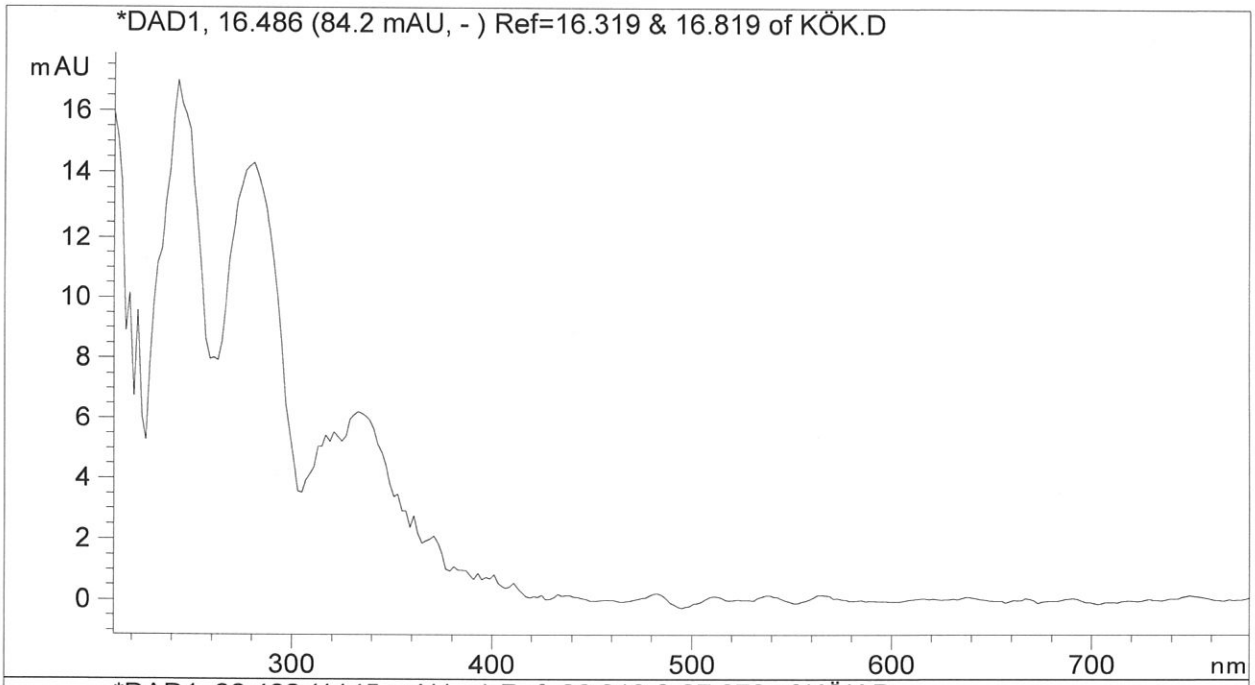

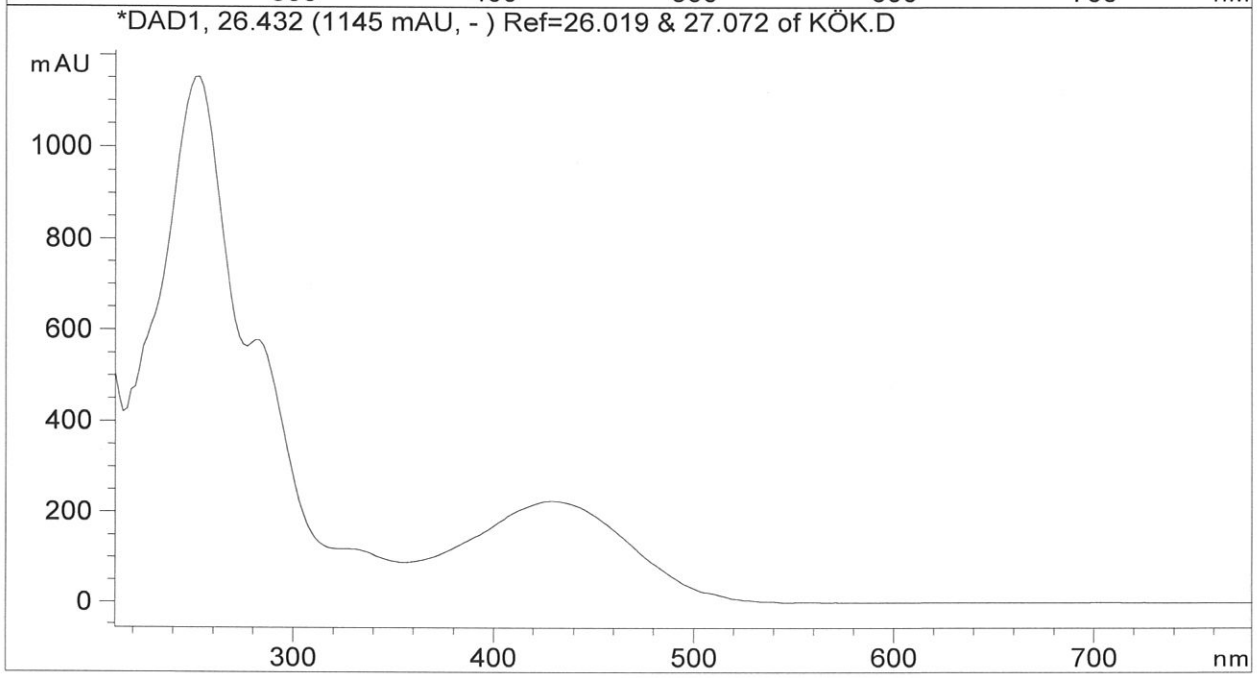

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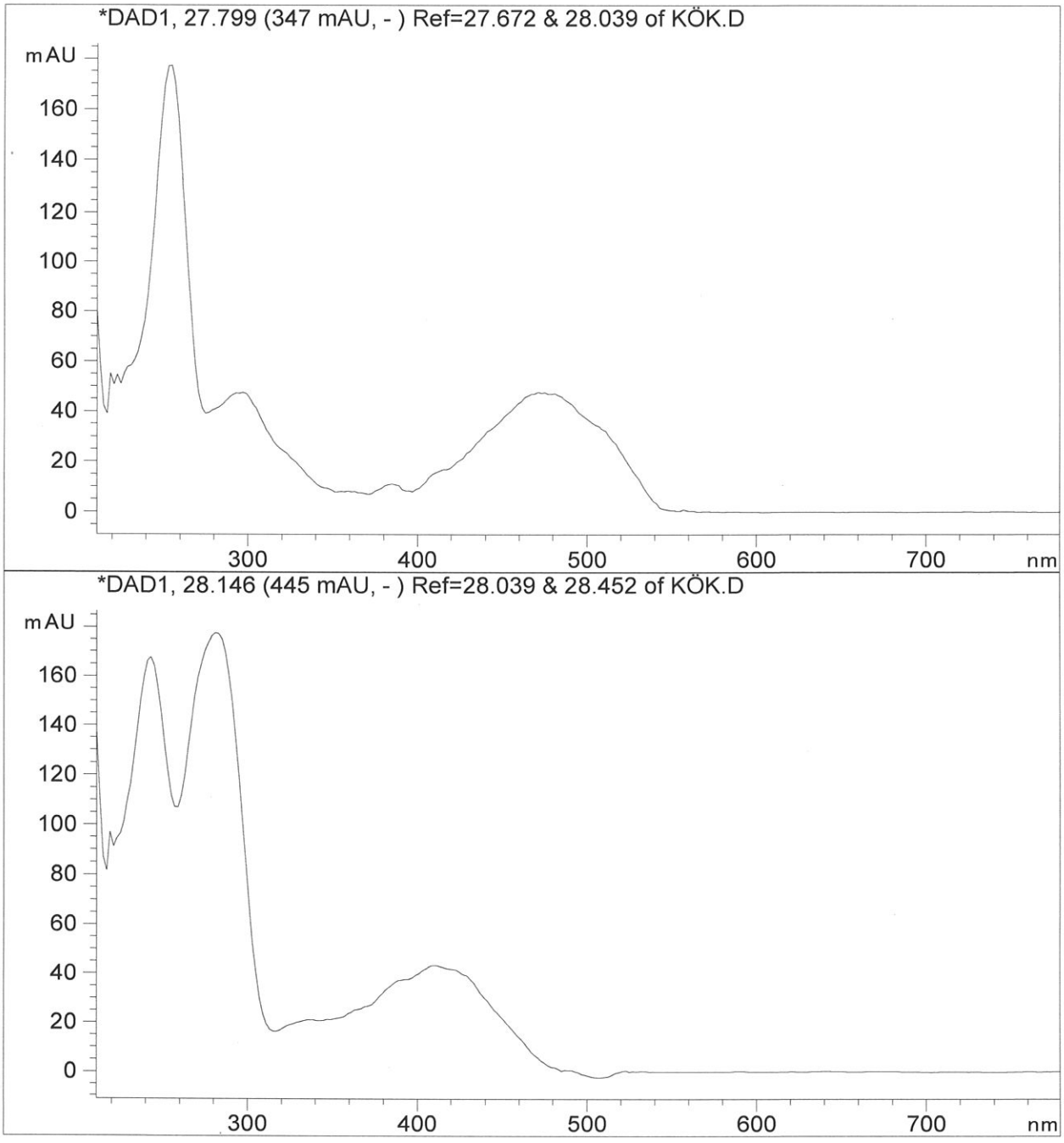

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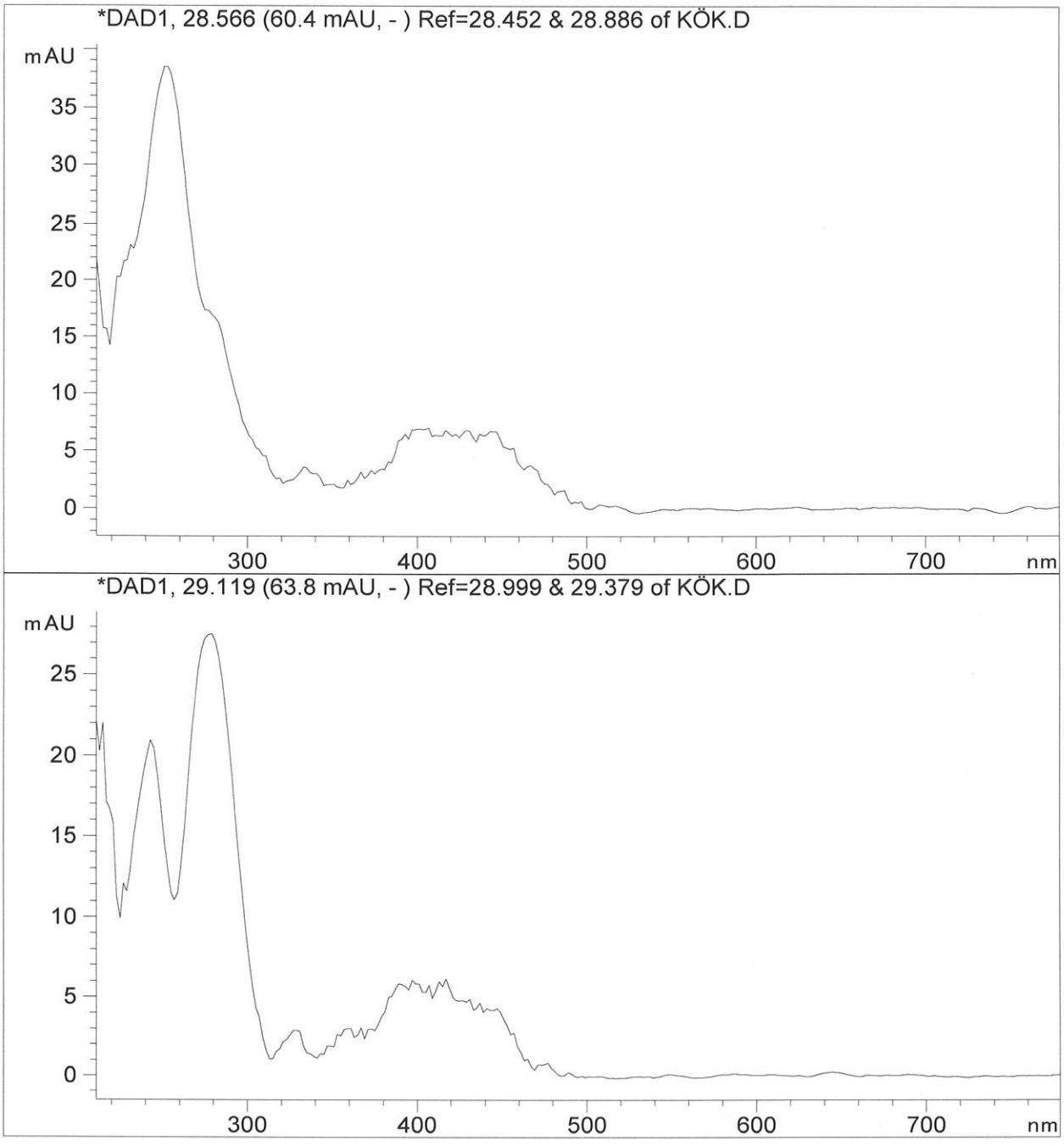

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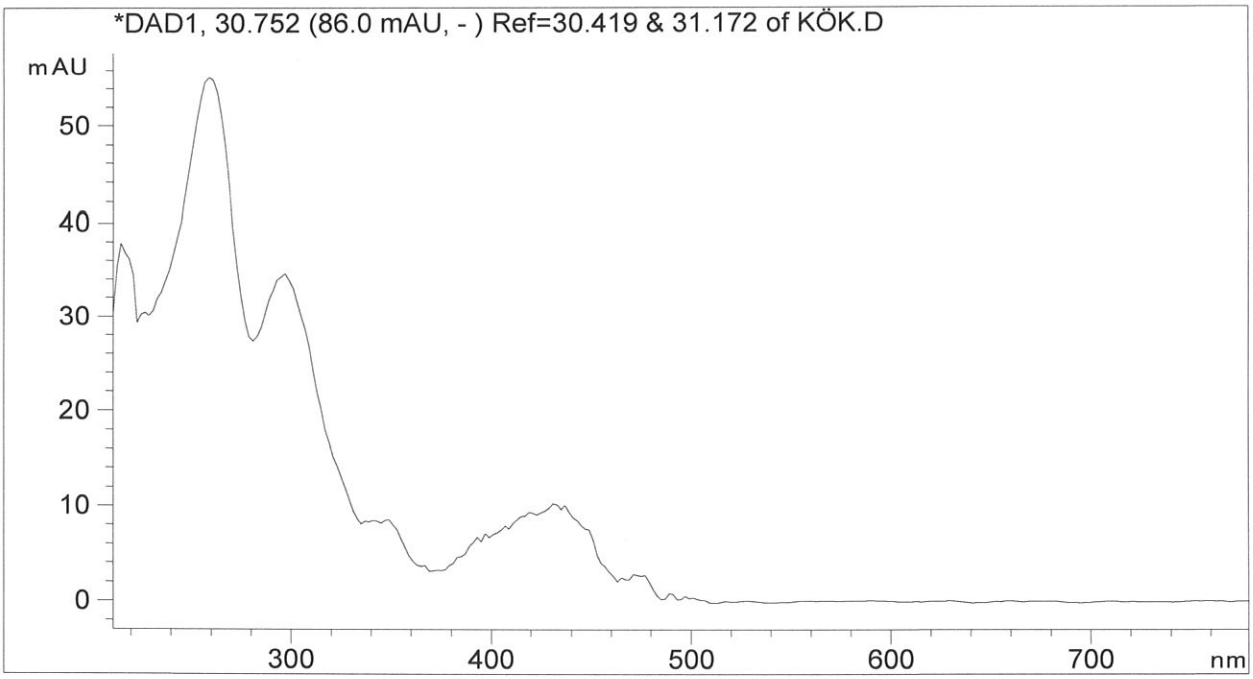
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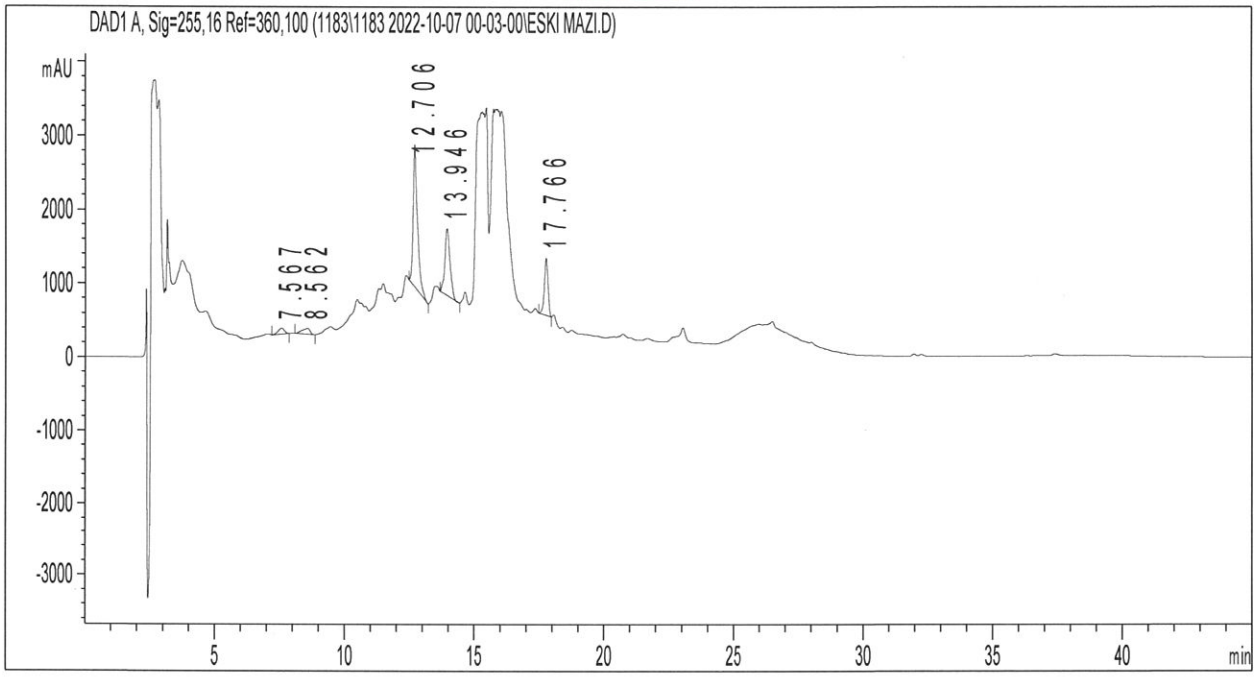
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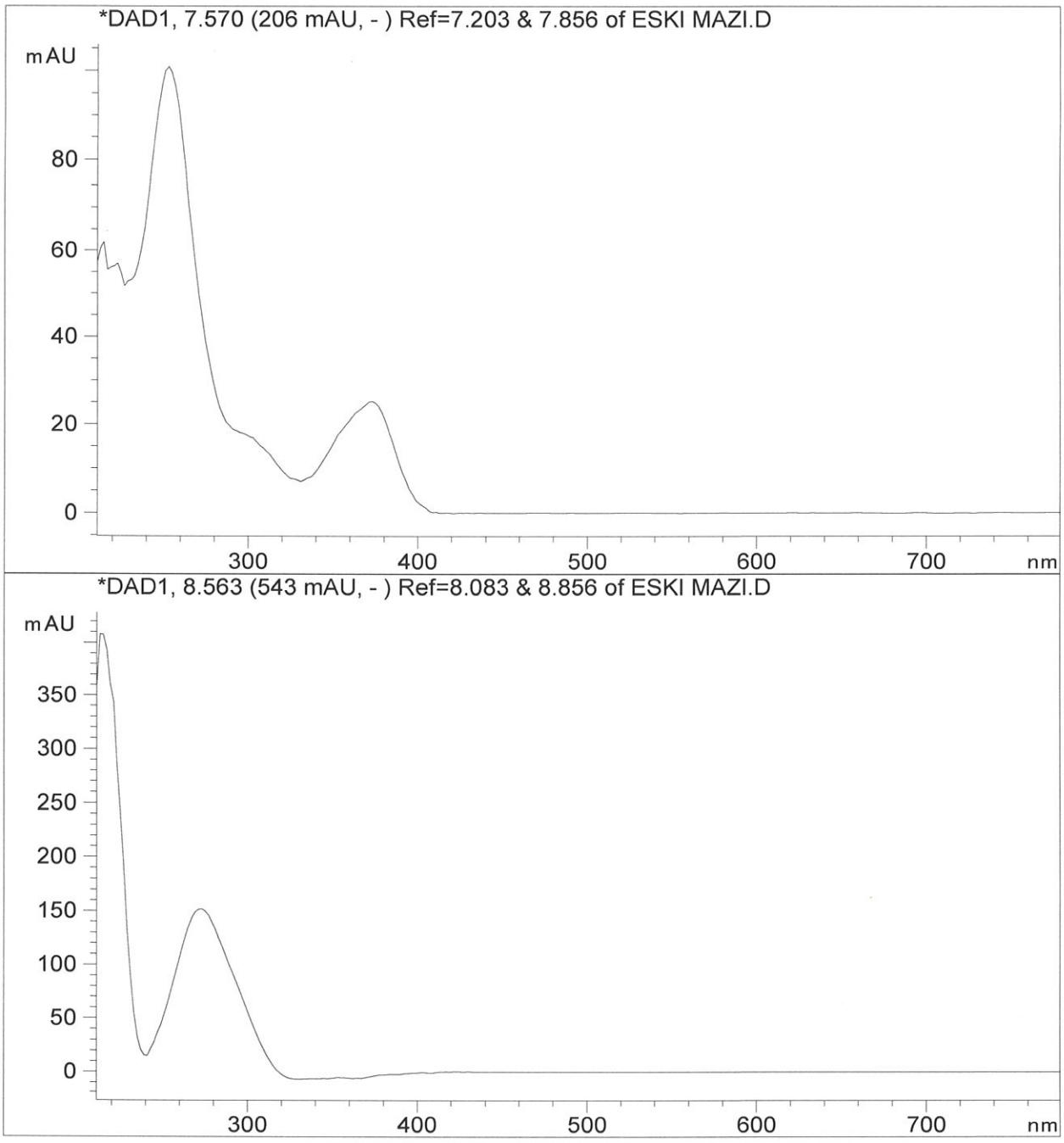
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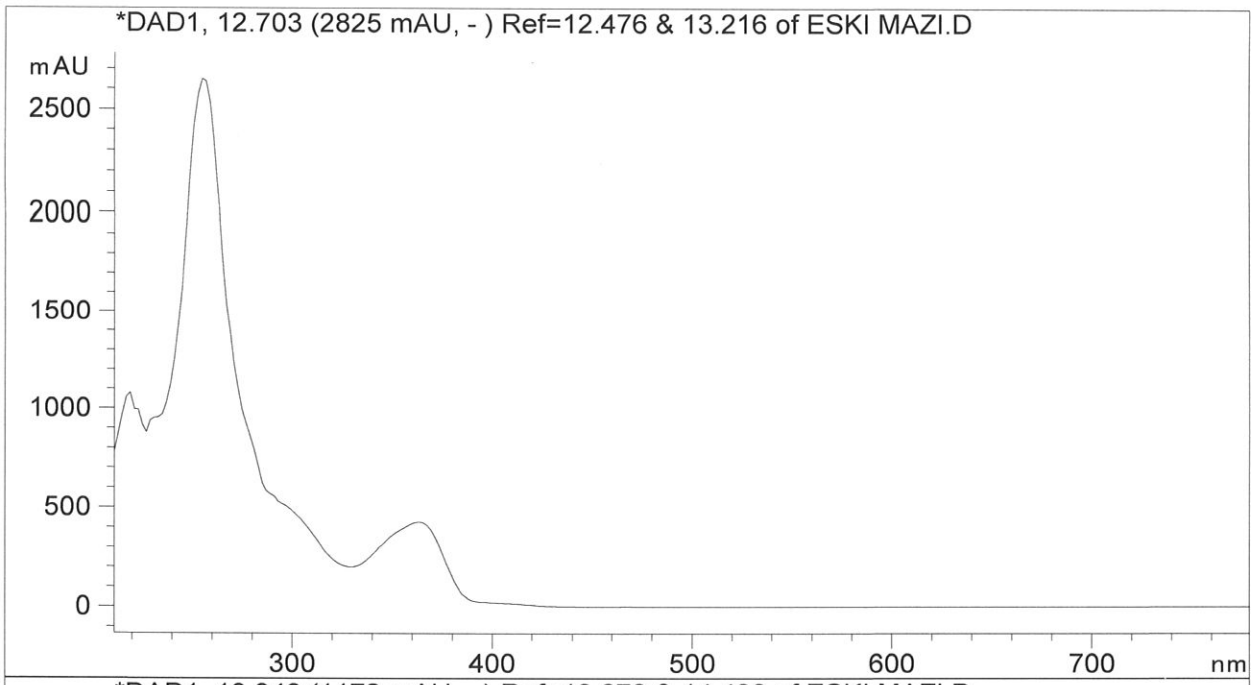

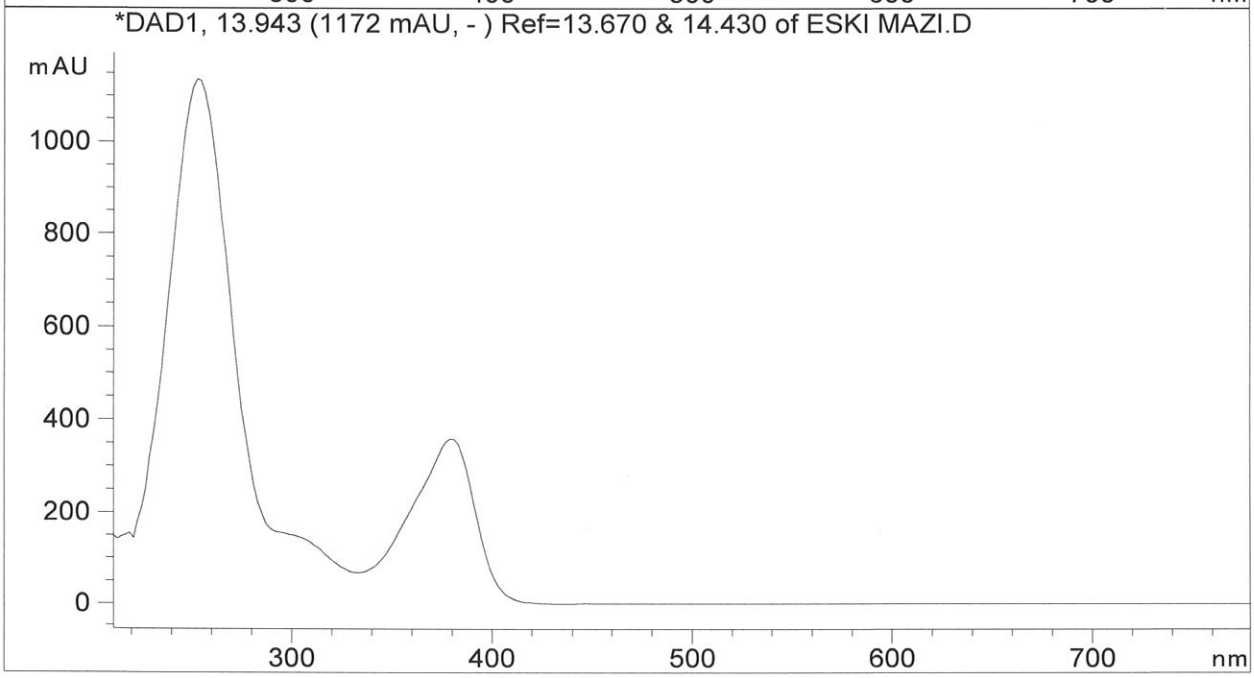

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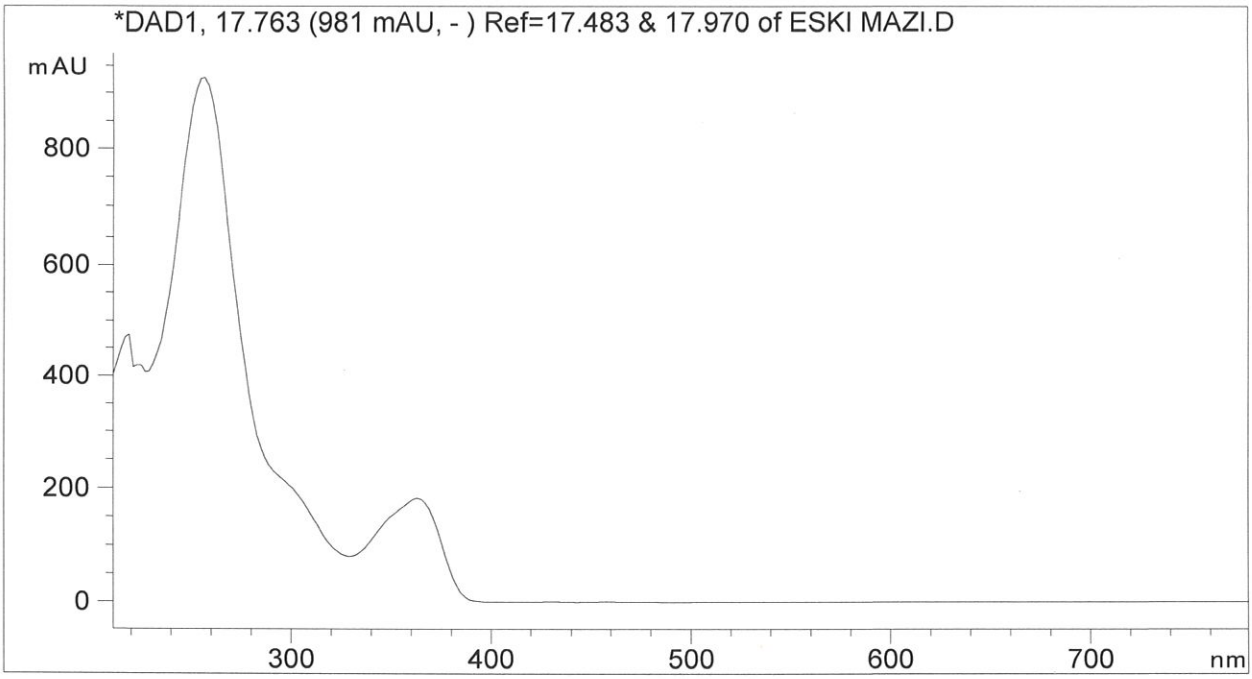
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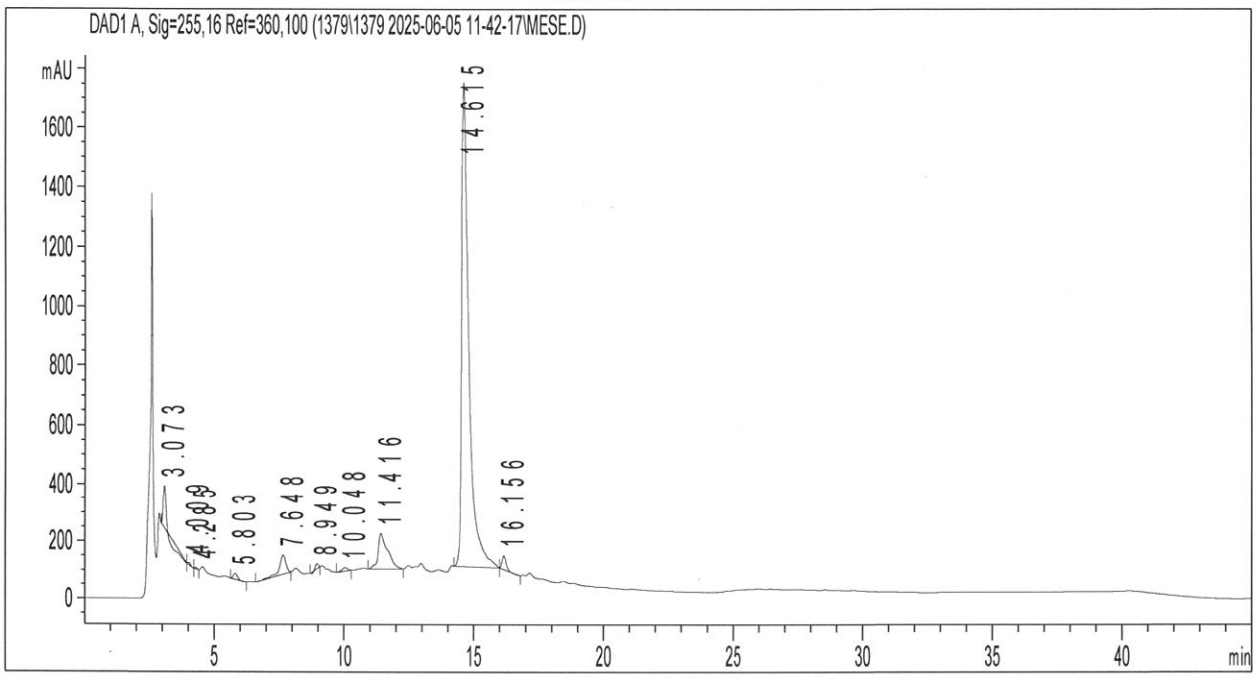
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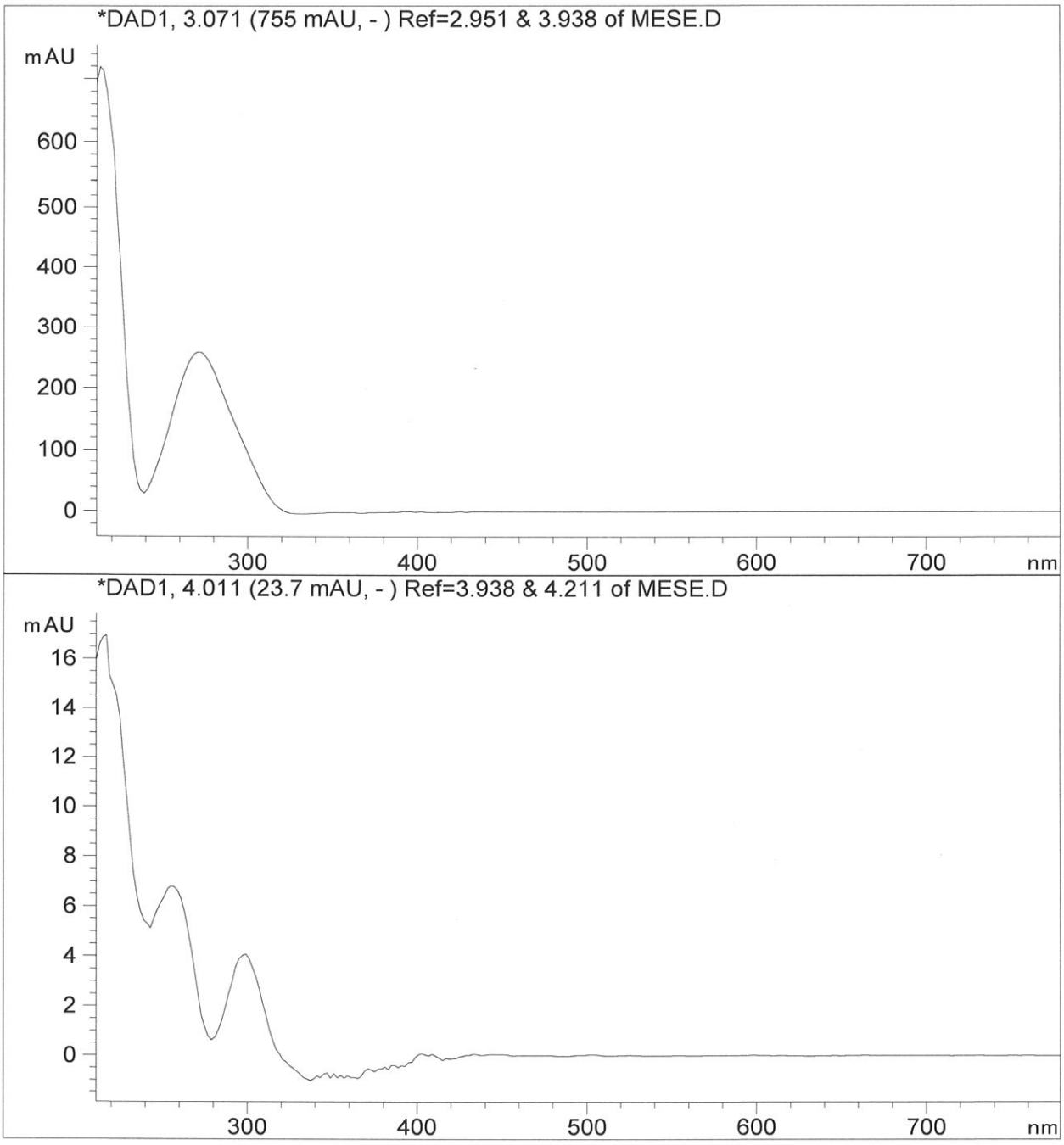

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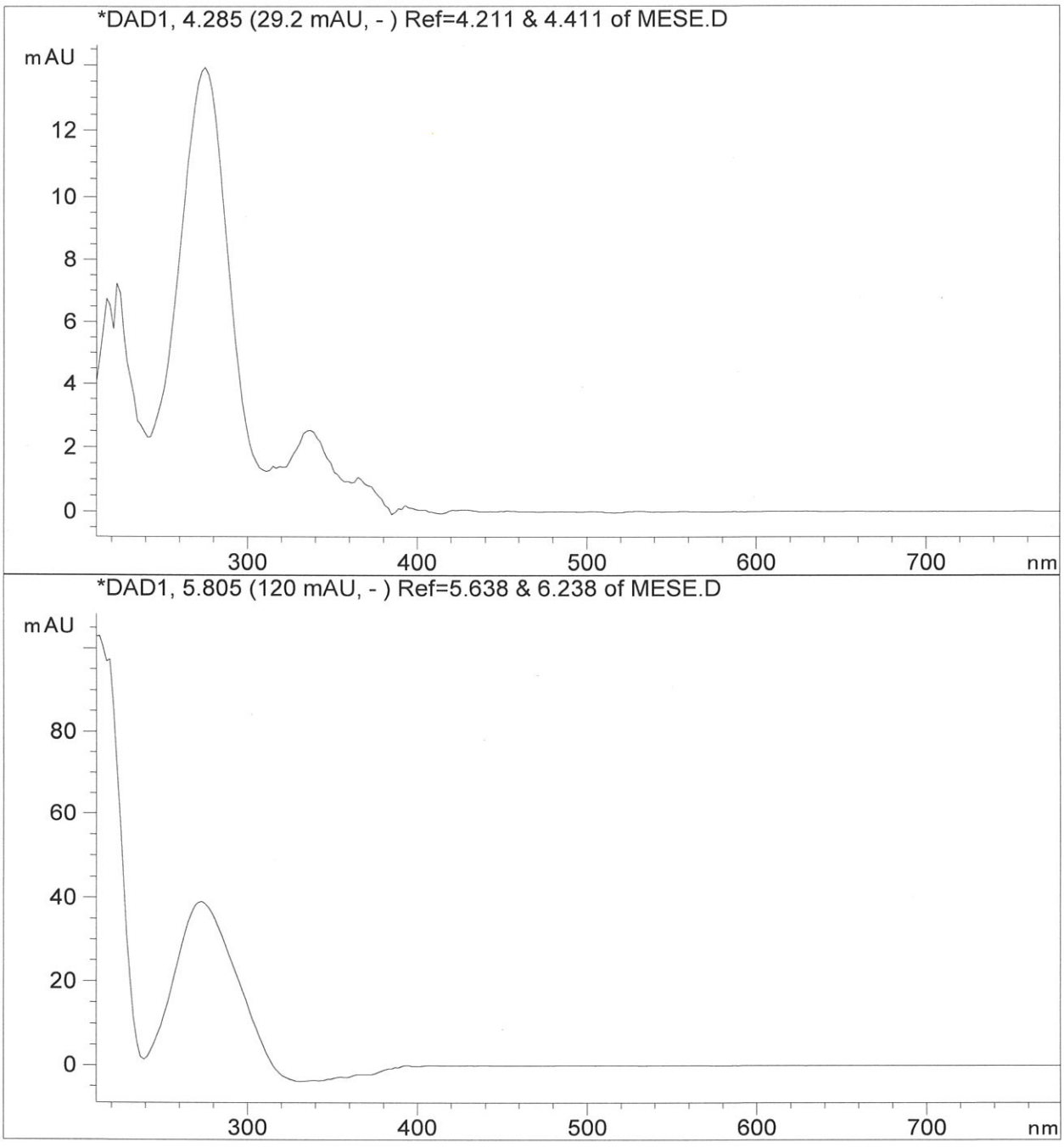

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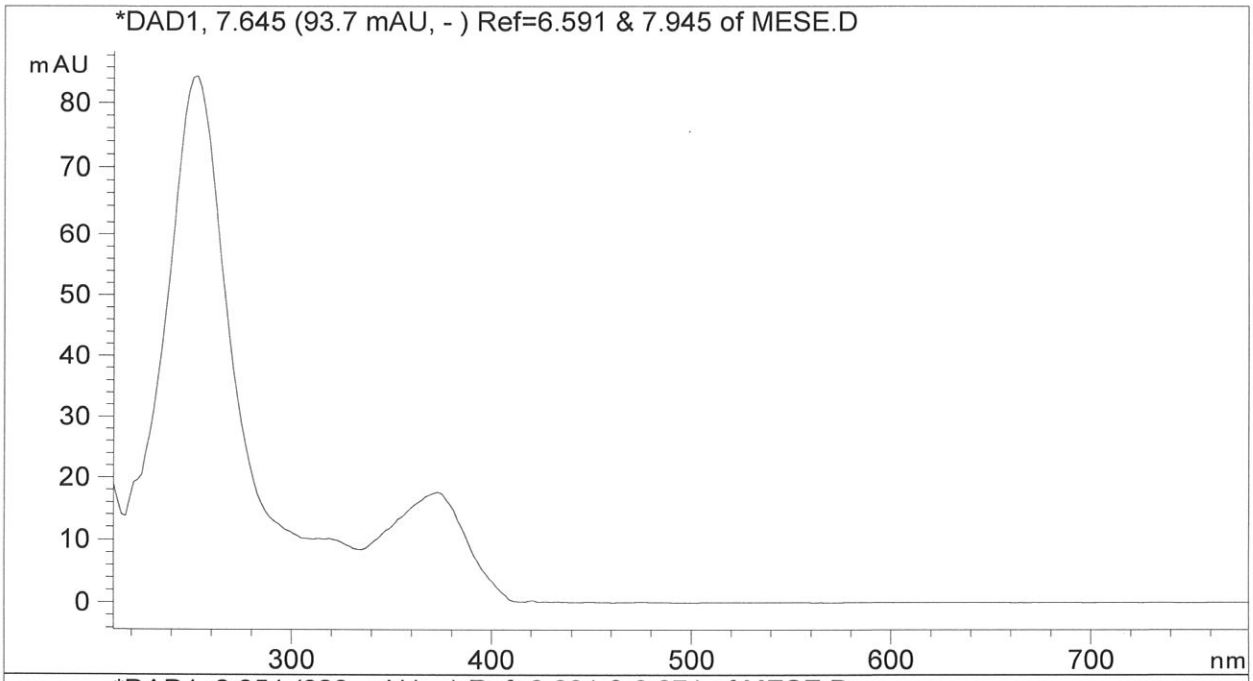

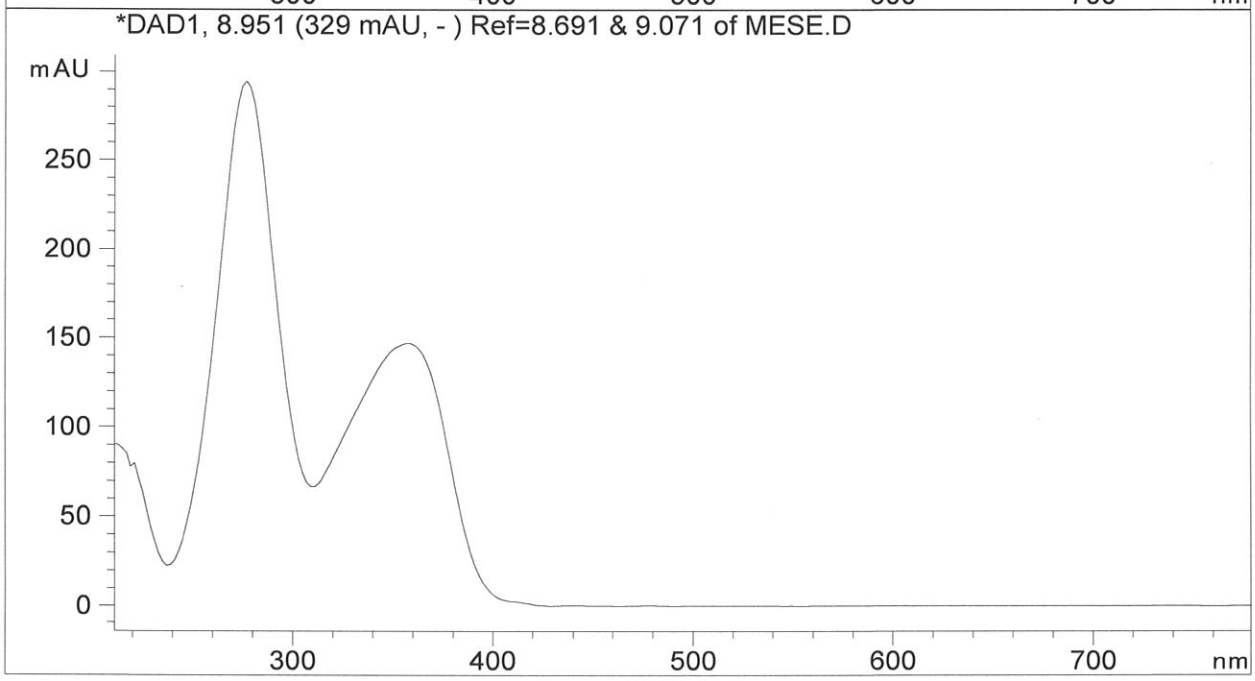

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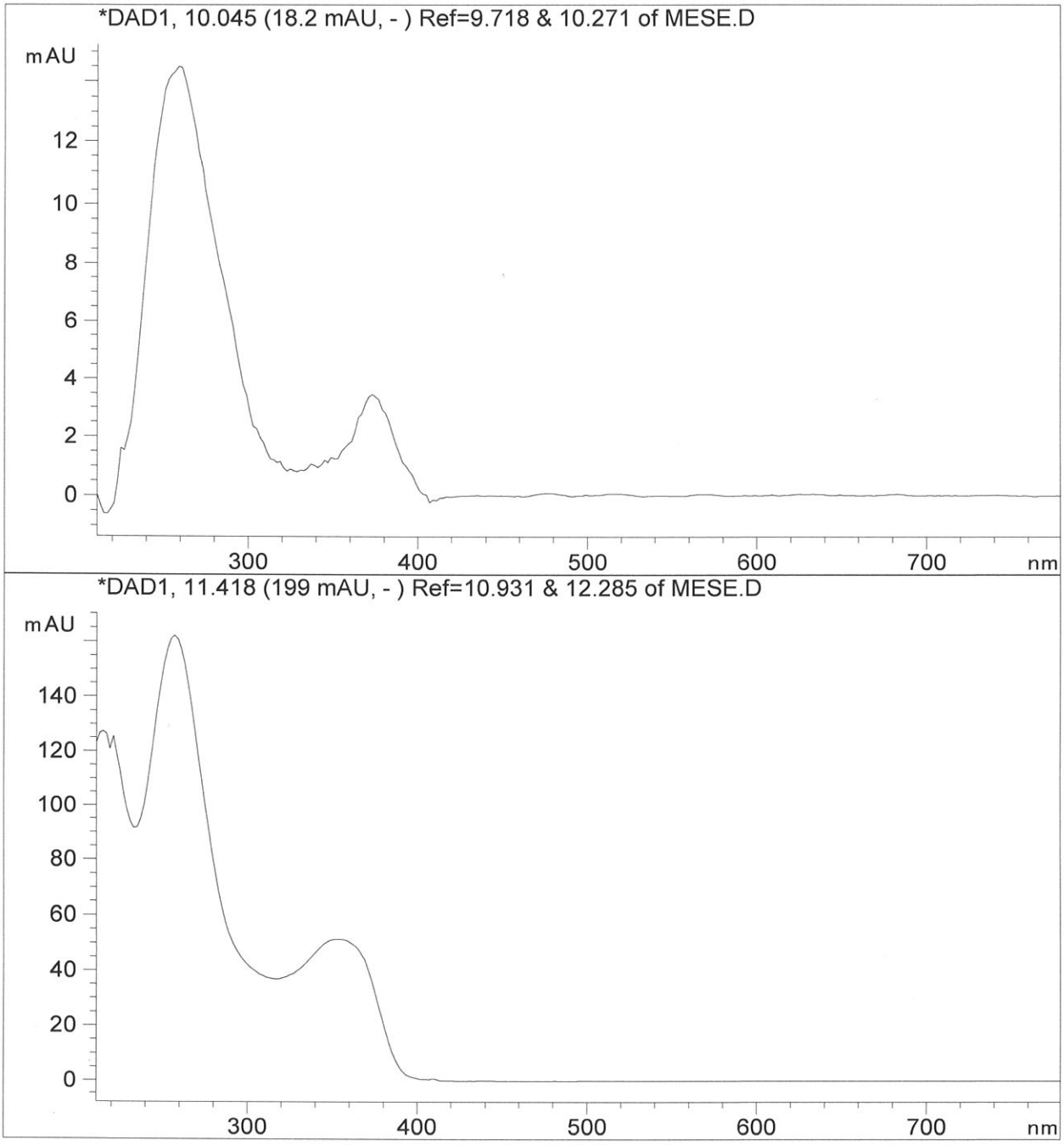

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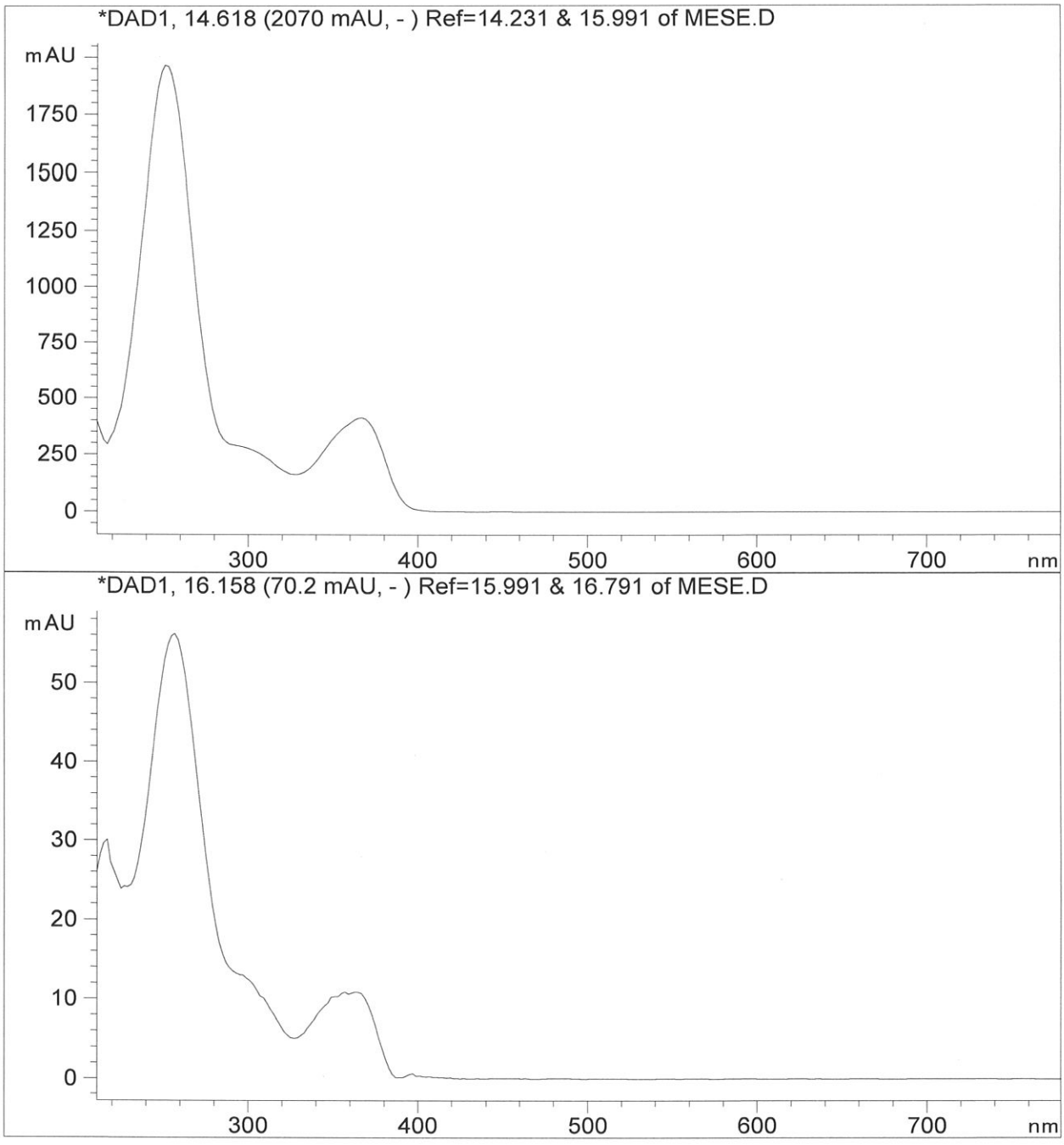

SARI

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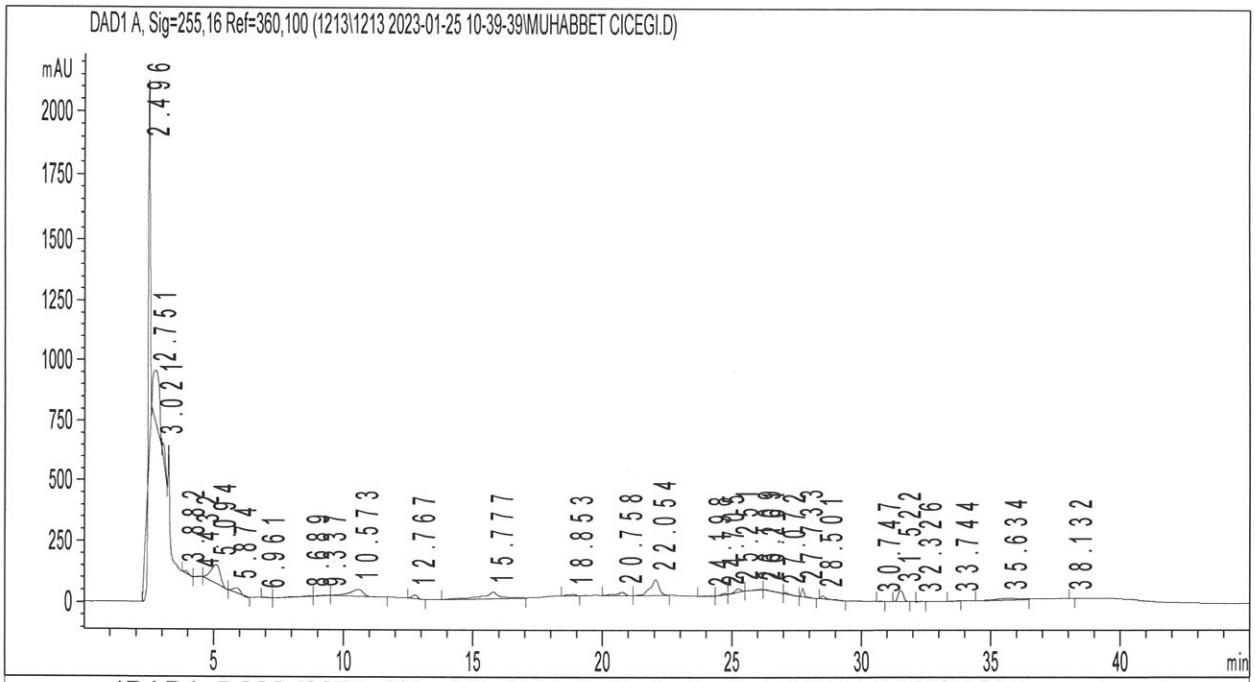

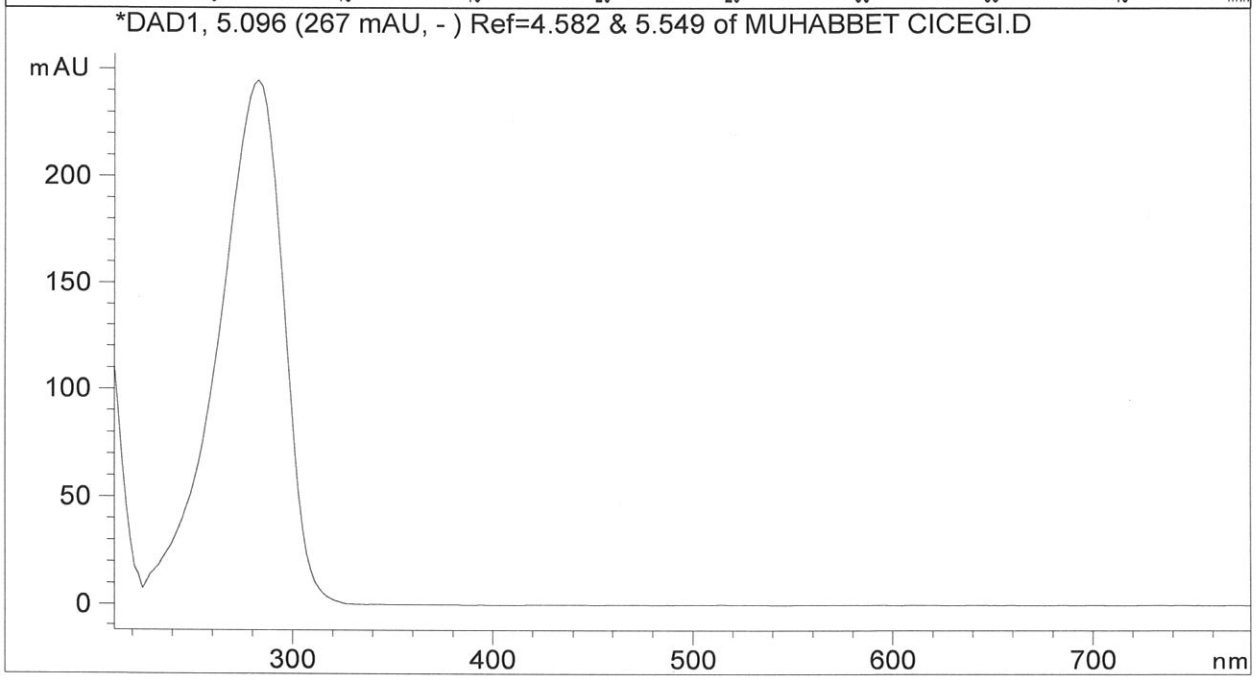

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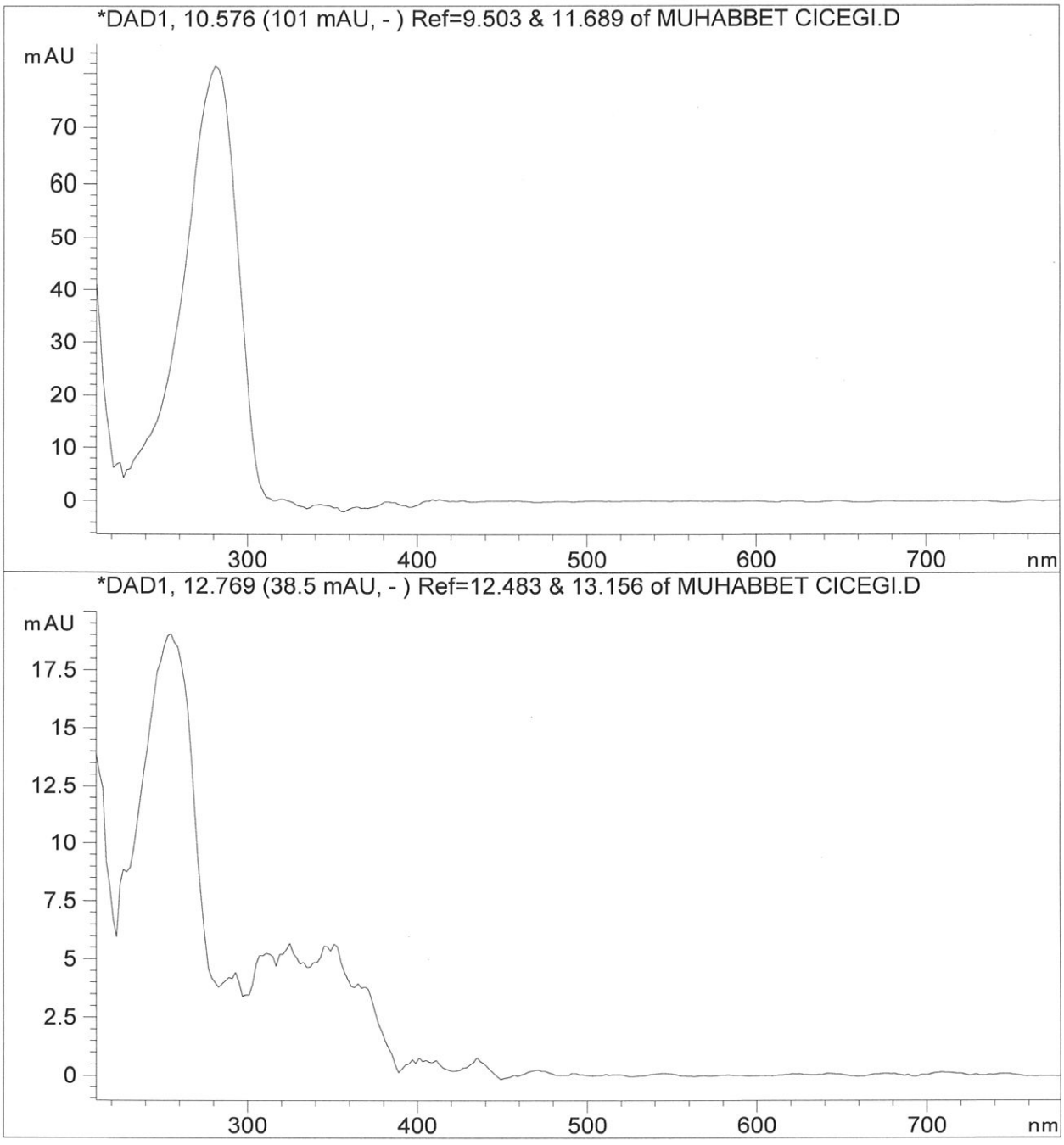

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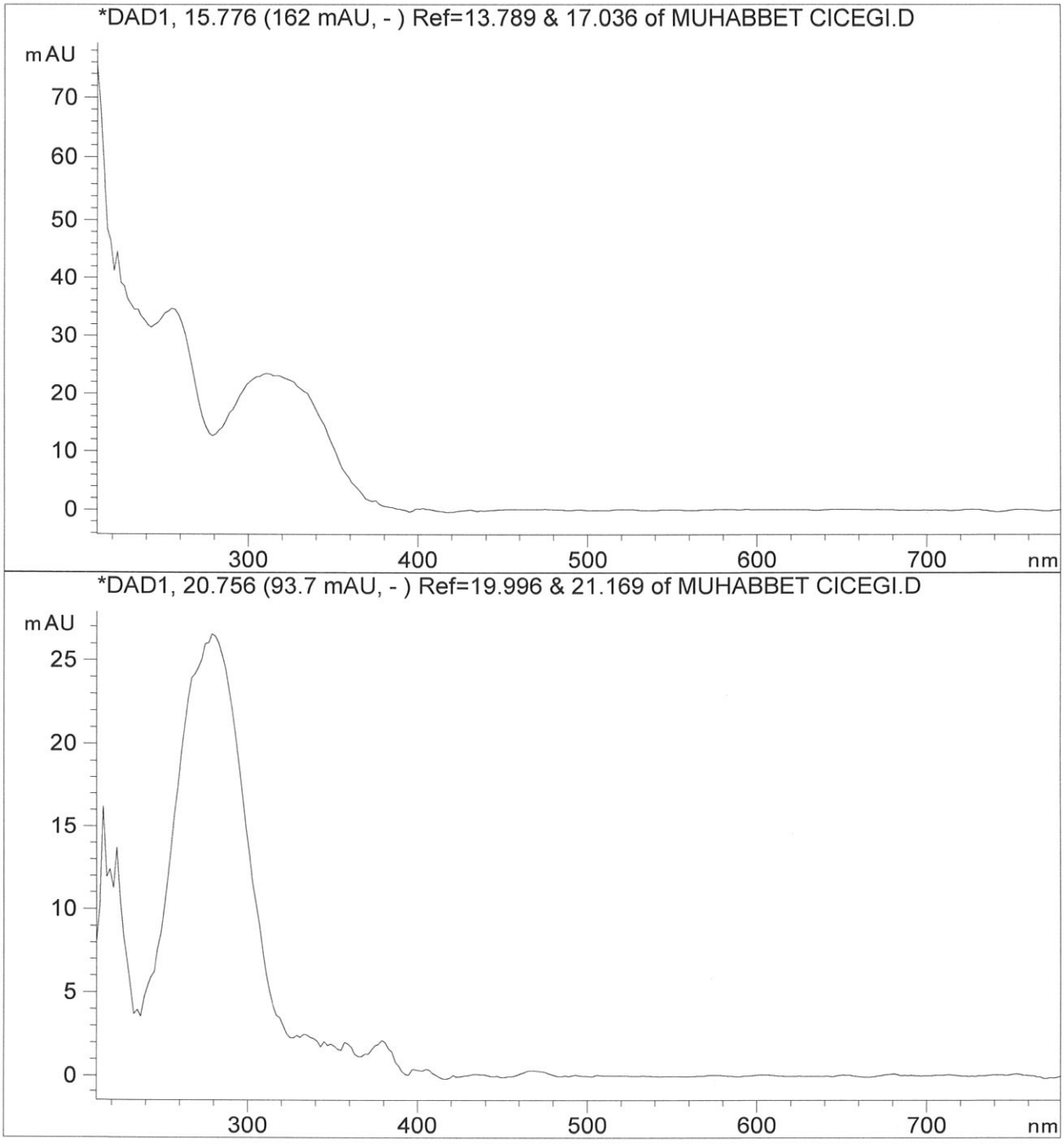

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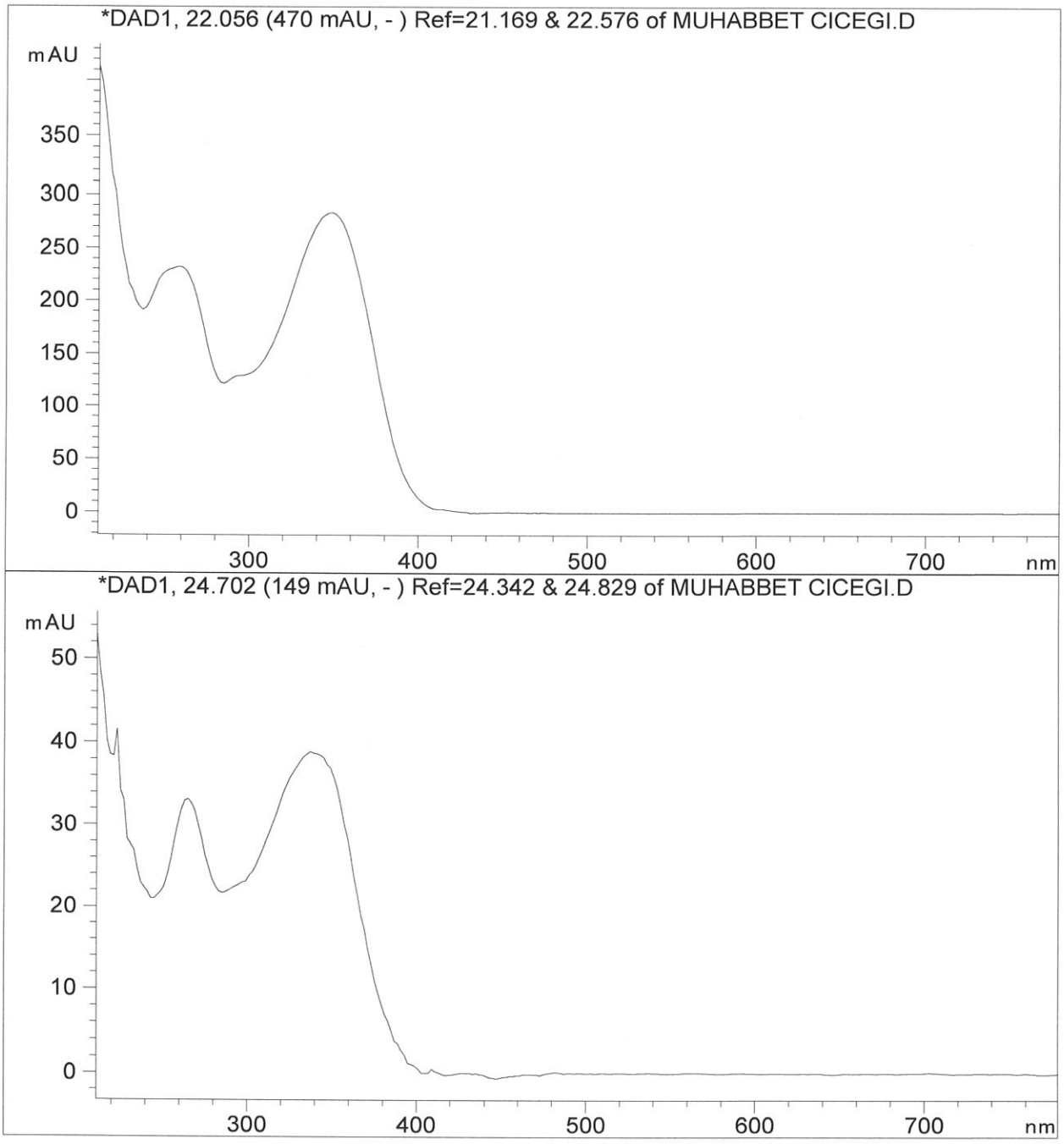

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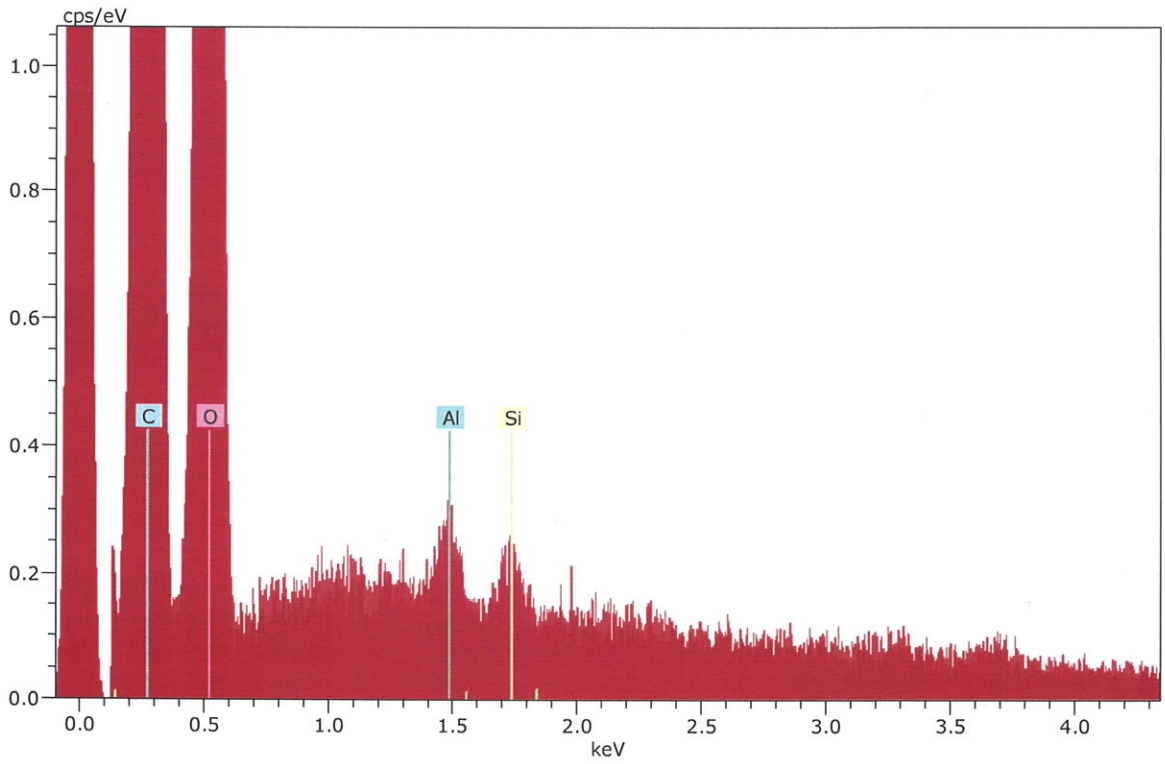
SEM-EDX (Scanning Electron Microscope with Energy Dispersive X-ray Spectroscopy) ile Yapı Tayini ve Elementel Analiz (Karbon Kaplamalı)



Tablo 1. 26017-01 nolu kırmızı boyama numunenin elementel analiz grafiği.

Spectrum: Kırmızı

El	AN	Series	unn. C [wt.%]	norm. C [wt.%]	Atom. C [at.%]	Error (1 Sigma) [wt.%]
C	6	K-series	55.03	55.03	62.05	6.16
O	8	K-series	44.63	44.63	37.78	5.19
Al	13	K-series	0.19	0.19	0.10	0.04
Si	14	K-series	0.14	0.14	0.07	0.03
		Total:	100.00	100.00	100.00	

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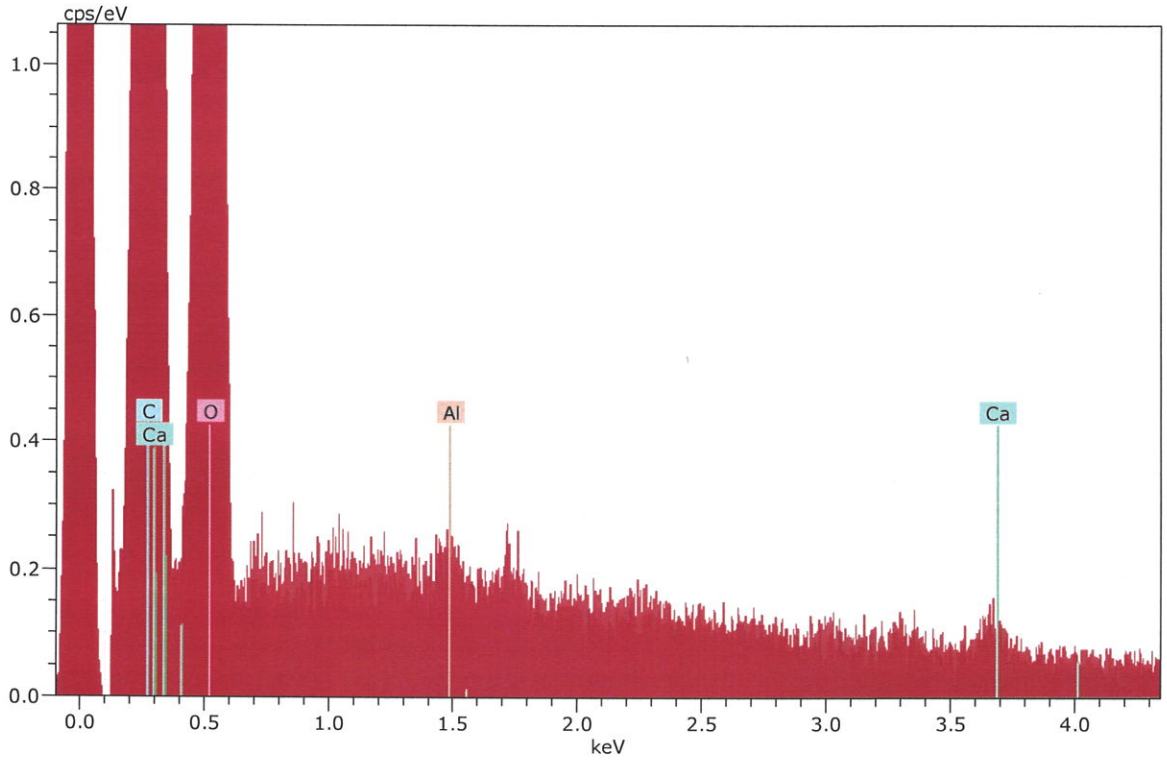

Tablo 2. 26017-02 nolu pembe numunenin elementel analiz grafiği.

Spectrum: pembe

El	AN	Series	unn. C [wt.%]	norm. C [wt.%]	Atom. C [at.%]	Error (1 Sigma) [wt.%]
C	6	K-series	53.97	53.97	61.10	6.05
O	8	K-series	45.59	45.59	38.75	5.29
Al	13	K-series	0.02	0.02	0.01	0.03
Ca	20	K-series	0.43	0.43	0.15	0.05
		Total:	100.00	100.00	100.00	

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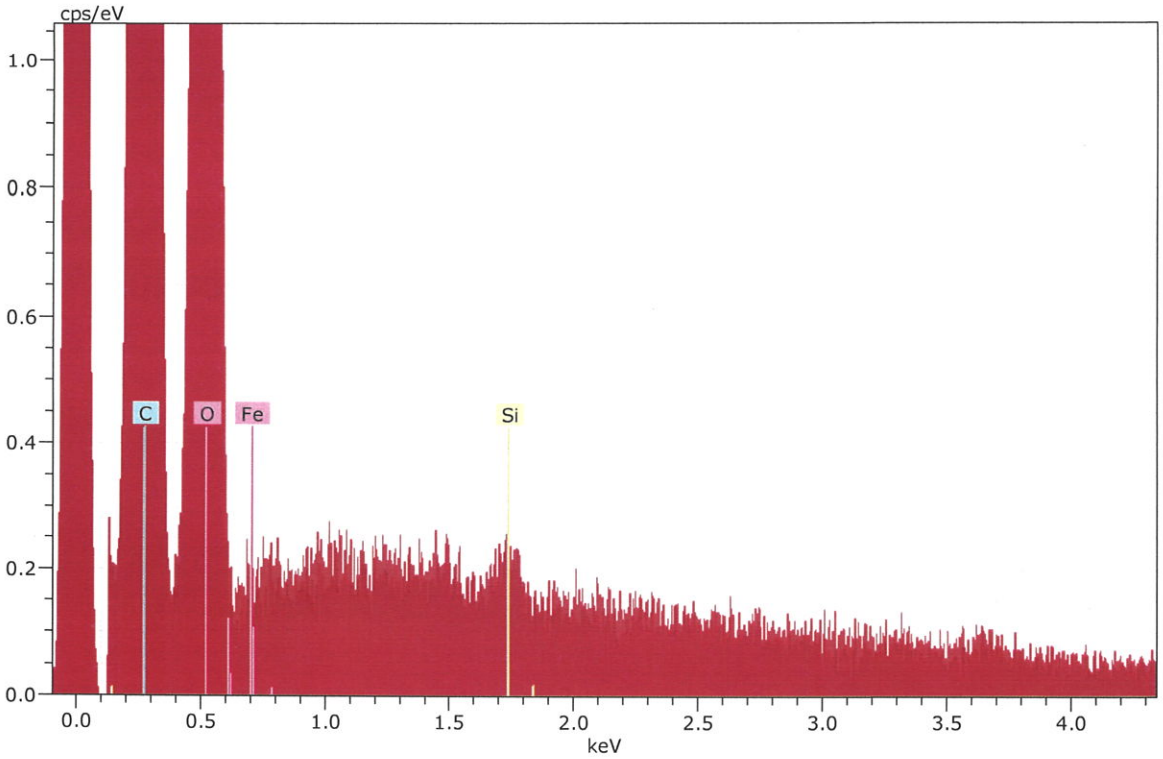

Tablo 3. 26017-04 kahverengi boyama numunenin elementel analiz grafiği.

Spectrum: kahverengi

El	AN	Series	unn. C [wt.%]	norm. C [wt.%]	Atom. C [at.%]	Error (1 Sigma) [wt.%]
C	6	K-series	56.86	56.86	63.92	6.35
O	8	K-series	42.57	42.57	35.92	4.97
Si	14	K-series	0.09	0.09	0.05	0.03
Fe	26	L-series	0.48	0.48	0.12	0.17
		Total:	100.00	100.00	100.00	

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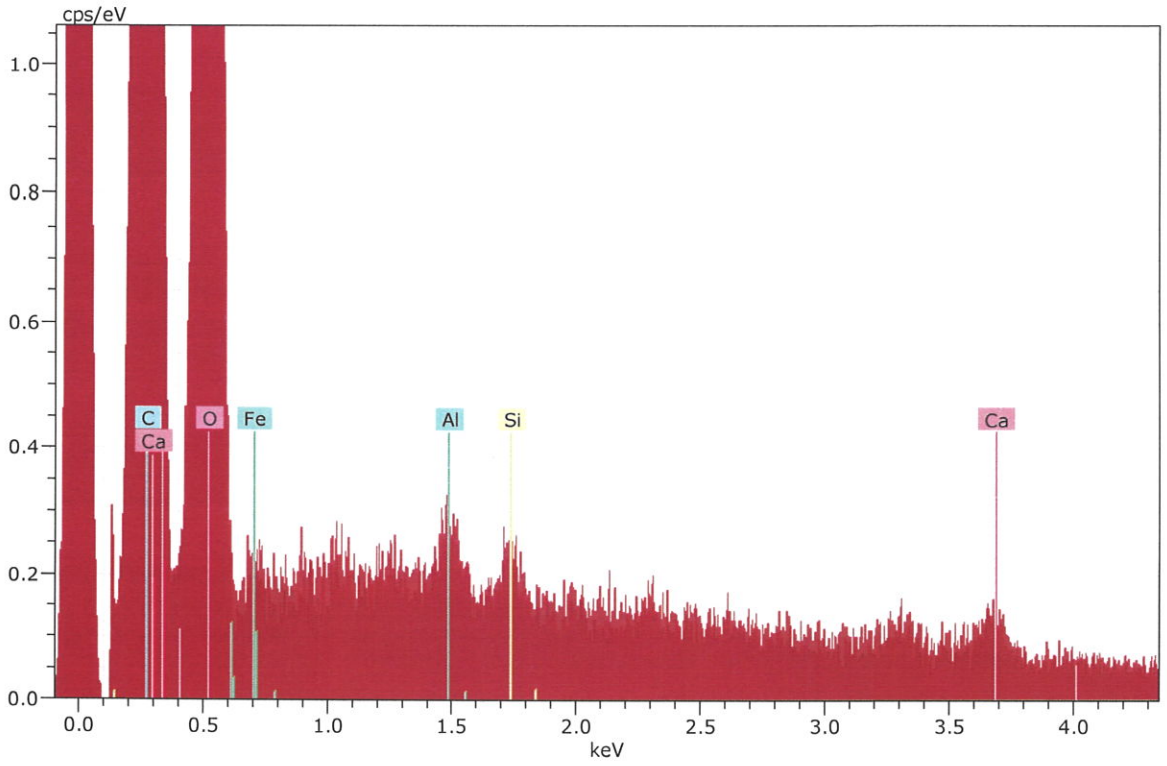

Tablo 4. 26017-05 nolu siyah boyama numunenin elementel analiz grafiği.

Spectrum: siyah

El	AN	Series	unn. C [wt.%]	norm. C [wt.%]	Atom. C [at.%]	Error (1 Sigma) [wt.%]
C	6	K-series	54.50	54.50	62.04	6.11
O	8	K-series	43.85	43.85	37.46	5.11
Al	13	K-series	0.10	0.10	0.05	0.03
Si	14	K-series	0.06	0.06	0.03	0.03
Ca	20	K-series	0.58	0.58	0.20	0.06
Fe	26	L-series	0.91	0.91	0.22	0.25
		Total:	100.00	100.00	100.00	

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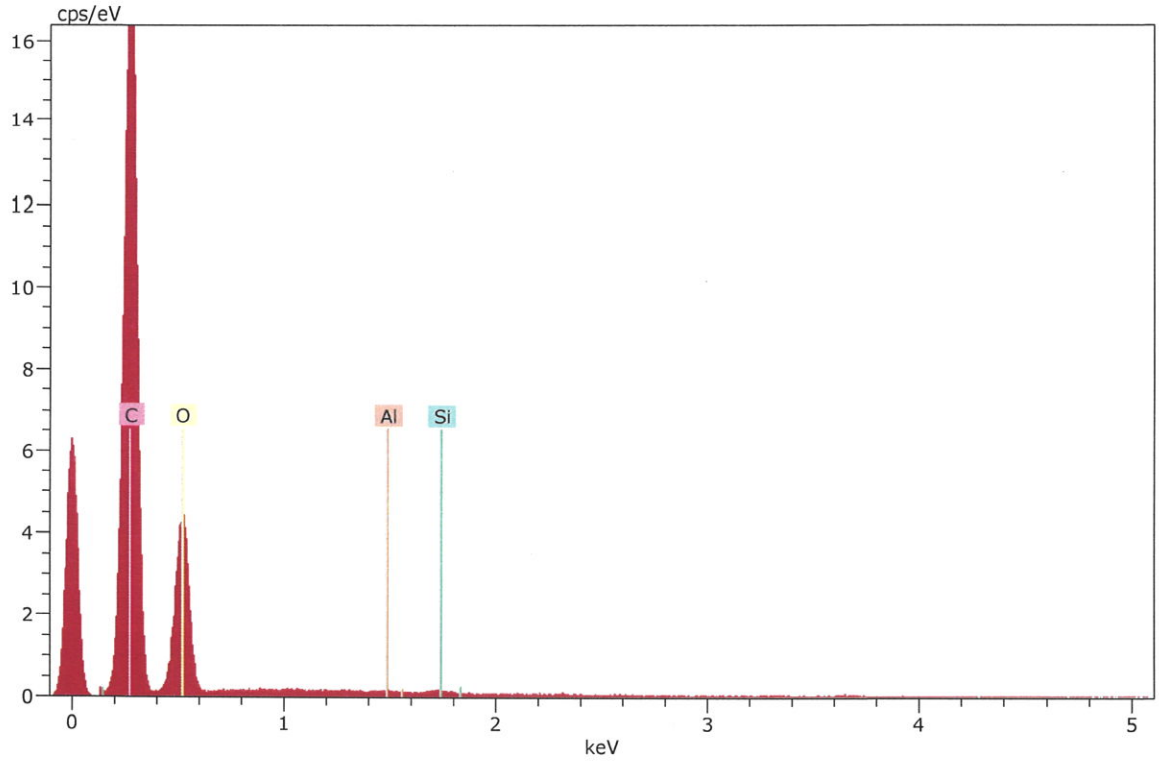

Tablo 5. 26017-03 nolu sarı boyama numunenin elementel analiz grafiği.

Spectrum: sarı

El	AN	Series	unn. C [wt.%]	norm. C [wt.%]	Atom. C [at.%]	Error (1 Sigma) [wt.%]
C	6	K-series	67.48	67.48	73.50	7.44
O	8	K-series	32.25	32.25	26.37	3.88
Al	13	K-series	0.08	0.08	0.04	0.03
Si	14	K-series	0.19	0.19	0.09	0.04
		Total:	100.00	100.00	100.00	

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	CMC(l:c)(D65)	*L*(D65)*	*a*(D65)*	*b*(D65)*	*dL*(D65)*	*da*(D65)*
Target	------	*91,4*	*0,67*	*4,81*	------	------
Target	------	*91,27*	*0,64*	*4,23*	------	------
1	*25,98*	*69,79*	*13,05*	*19,6*	*-21,61*	*12,38*
1	*26,53*	*69,74*	*12,95*	*19,18*	*-21,53*	*12,31*
2	*39,72*	*57,42*	*23,1*	*23,04*	*-33,99*	*22,43*
2	*40,53*	*57,3*	*23,02*	*22,7*	*-33,97*	*22,38*
3	*47,19*	*52,76*	*30,22*	*23,65*	*-38,64*	*29,55*
3	*48,1*	*52,69*	*30,11*	*23,34*	*-38,58*	*29,46*
4	*44,42*	*47,28*	*25,2*	*19,91*	*-44,12*	*24,53*
4	*44,96*	*47,32*	*25,09*	*19,56*	*-43,94*	*24,45*
5	*37,3*	*56,95*	*20,6*	*21,25*	*-34,45*	*19,93*
5	*38,09*	*56,73*	*20,54*	*20,97*	*-34,54*	*19,89*
6	*51,96*	*46,29*	*32,79*	*23,98*	*-45,11*	*32,12*
6	*52,93*	*46,09*	*32,65*	*23,68*	*-45,18*	*32,01*
7	*43,65*	*51,29*	*25,93*	*21,41*	*-40,12*	*25,26*
7	*44,43*	*51,12*	*25,85*	*21,1*	*-40,15*	*25,21*
8	*44,14*	*48,72*	*25,79*	*19,91*	*-42,69*	*25,12*
8	*44,78*	*48,59*	*25,68*	*19,53*	*-42,67*	*25,03*
9	*48,25*	*44,03*	*28,83*	*19,01*	*-47,37*	*28,16*
9	*49,04*	*43,71*	*28,76*	*18,7*	*-47,56*	*28,12*
10	*48,03*	*44,95*	*28,85*	*19,65*	*-46,45*	*28,18*
10	*48,76*	*44,87*	*28,79*	*19,38*	*-46,39*	*28,15*
11	*35,77*	*65,4*	*25,66*	*16,16*	*-26,01*	*24,99*
11	*36,39*	*65,21*	*25,6*	*15,72*	*-26,06*	*24,96*
12	*35,17*	*65,18*	*24,16*	*17,91*	*-26,22*	*23,49*
12	*35,75*	*65,05*	*24,04*	*17,44*	*-26,21*	*23,4*
13	*40,84*	*59,17*	*27,32*	*19,97*	*-32,23*	*26,65*
13	*41,58*	*59,08*	*27,24*	*19,57*	*-32,19*	*26,59*
14	*40,19*	*59,08*	*26,15*	*20,58*	*-32,32*	*25,48*
14	*40,83*	*59,15*	*26,05*	*20,15*	*-32,11*	*25,4*
15	*44,29*	*56,25*	*29,88*	*20,58*	*-35,15*	*29,21*
15	*45,03*	*56,24*	*29,77*	*20,15*	*-35,03*	*29,13*
16	*44,61*	*57,79*	*29,87*	*22,8*	*-33,61*	*29,2*
16	*45,53*	*57,62*	*29,76*	*22,43*	*-33,65*	*29,12*

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17	42,85	57,34	27,81	22,15	-34,06	27,14
17	43,79	57,08	27,75	21,82	-34,19	27,1
18	43,11	55,96	27,32	22,35	-35,45	26,65
18	43,98	55,87	27,27	22,03	-35,4	26,63
19	50,7	46,45	32,24	21,98	-44,95	31,56
19	51,59	46,25	32,12	21,64	-45,02	31,48
20	55,04	43,9	35,54	23,86	-47,5	34,87
20	56,1	43,7	35,46	23,58	-47,57	34,81
21	51,11	46,65	31,97	23,8	-44,76	31,3
21	52,1	46,42	31,86	23,51	-44,85	31,22
22	64,13	66,81	2,85	62,16	-24,59	2,17
22	66,61	66,75	2,7	61,91	-24,51	2,05
23	72,92	61,58	12,57	68,64	-29,83	11,9
23	75,61	61,54	12,4	68,36	-29,73	11,76
24	72,24	55,31	16,24	65,74	-36,09	15,57
24	75,01	55,13	16,12	65,64	-36,14	15,48
25	23,11	82,82	-2,03	25,27	-8,59	-2,7
25	24,1	82,57	-2,14	24,89	-8,7	-2,79
26	42,76	73,94	-2,39	42,7	-17,46	-3,06
26	44,48	73,88	-2,53	42,42	-17,38	-3,18
27	37,44	76,03	-1,65	37,99	-15,37	-2,32
27	38,97	76,04	-1,81	37,71	-15,23	-2,46
28	34,59	68,29	-1,39	33,1	-23,11	-2,06
28	35,84	68,05	-1,48	32,77	-23,22	-2,13
29	44,05	63,43	-0,52	41,43	-27,97	-1,19
29	45,7	63,29	-0,65	41,22	-27,98	-1,29
30	44,88	64,68	0	42,7	-26,72	-0,67
30	46,59	64,47	-0,11	42,46	-26,8	-0,75
31	36,62	69,69	-0,13	35,74	-21,71	-0,8
31	38,05	69,57	-0,27	35,49	-21,7	-0,91
32	32,33	65,17	21,48	16,28	-26,23	20,81
32	32,89	64,99	21,43	15,85	-26,27	20,78
33	47,34	39,27	-4,57	-18,3	-52,13	-5,24
33	46,98	39,11	-4,46	-18,64	-52,16	-5,11
34	42,4	45,84	-6,73	-15,65	-45,56	-7,4
34	41,99	45,67	-6,66	-15,96	-45,6	-7,3
35	50,85	34,08	-3,41	-19,51	-57,32	-4,08
35	50,4	34,12	-3,35	-19,84	-57,15	-3,99
36	47,77	36,46	-5,09	-16,55	-54,94	-5,76
36	47,3	36,49	-5	-16,88	-54,78	-5,65
37	51,37	37,68	-3,16	-22,88	-53,72	-3,83
37	50,95	37,49	-3,02	-23,1	-53,78	-3,66

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38	11,4	77,54	-3,81	5,09	-13,86	-4,48
38	11,32	77,52	-3,86	4,6	-13,75	-4,5
39	57,72	41,38	38,77	-6,36	-50,02	38,1
39	58,18	41,27	38,79	-6,72	-50	38,14
40	52,43	49	35,62	-7,65	-42,4	34,95
40	52,69	48,97	35,55	-8,06	-42,3	34,9
41	42,67	56,47	28,91	-4,17	-34,93	28,24
41	42,82	56,37	28,87	-4,61	-34,9	28,22
42	34,05	49,96	-13,5	9,62	-41,44	-14,17
42	34,09	49,96	-13,52	9,41	-41,3	-14,17
43	35,1	47,36	-12,92	6,06	-44,04	-13,59
43	35,09	47,24	-12,93	5,83	-44,03	-13,58
44	39,46	41,14	-13,66	3,74	-50,26	-14,34
44	39,38	41,03	-13,65	3,53	-50,24	-14,3
45	33,54	52,14	-10,21	-4,99	-39,26	-10,88
45	33,27	51,93	-10,15	-5,32	-39,34	-10,8
46	43,14	40,68	-7,96	-11,99	-50,72	-8,63
46	42,68	40,71	-7,89	-12,33	-50,55	-8,53
47	44,31	40,17	-8,42	-13,21	-51,24	-9,09
47	43,87	40,12	-8,34	-13,51	-51,15	-8,98

	db*(D65)	dE*ab(D65)	K/S Val(360)	C*(D65)	h(D65)
Target	------	------	0,20929	4,85	82,05
Target	------	------	0,19911	4,28	81,34
1	14,8	28,97	2,76851	23,55	56,35
1	14,94	28,95	2,66662	23,14	55,96
2	18,24	44,62	6,70131	32,63	44,93
2	18,46	44,67	6,65475	32,33	44,59
3	18,84	52,17	7,36333	38,37	38,05
3	19,11	52,17	7,29471	38,1	37,78
4	15,1	52,69	9,31237	32,12	38,3
4	15,33	52,57	9,10545	31,82	37,94
5	16,44	43,06	5,21334	29,59	45,89
5	16,74	43,23	5,10916	29,35	45,6
6	19,18	58,6	9,61682	40,62	36,18
6	19,45	58,69	9,528	40,34	35,95
7	16,61	50,23	6,12745	33,63	39,55
7	16,87	50,32	6,02876	33,37	39,22

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8	15,11	51,78	6,91814	32,58	37,67
8	15,3	51,78	6,82026	32,26	37,26
9	14,2	56,91	8,65986	34,53	33,4
9	14,47	57,11	8,67841	34,31	33,04
10	14,84	56,32	8,18481	34,9	34,26
10	15,15	56,34	8,02061	34,71	33,95
11	11,35	37,82	1,72791	30,33	32,2
11	11,49	37,86	1,69365	30,04	31,55
12	13,11	37,56	1,85441	30,07	36,56
12	13,21	37,54	1,82086	29,7	35,96
13	15,16	44,49	2,63394	33,84	36,16
13	15,34	44,48	2,5752	33,54	35,7
14	15,77	44,08	2,69735	33,28	38,2
14	15,91	43,93	2,61168	32,93	37,72
15	15,77	48,34	3,09426	36,28	34,56
15	15,91	48,25	3,00051	35,95	34,09
16	18	48,02	3,03746	37,58	37,36
16	18,2	48,07	2,98532	37,27	37
17	17,34	46,88	3,15936	35,55	38,53
17	17,58	47,04	3,13306	35,3	38,17
18	17,54	47,69	3,48128	35,3	39,28
18	17,8	47,74	3,40906	35,06	38,93
19	17,17	57,55	6,55205	39,01	34,29
19	17,41	57,63	6,54081	38,73	33,97
20	19,05	61,93	7,62017	42,8	33,87
20	19,35	62,04	7,54724	42,58	33,63
21	18,99	57,82	7,28113	39,85	36,66
21	19,28	57,94	7,21386	39,6	36,42
22	57,36	62,44	6,05807	62,23	87,38
22	57,67	62,7	5,98044	61,97	87,5
23	63,83	71,45	16,13789	69,78	79,62
23	64,12	71,65	15,24917	69,47	79,72
24	60,93	72,51	25,32529	67,71	76,12
24	61,41	72,91	24,01	67,59	76,2
25	20,46	22,36	1,38174	25,35	94,6
25	20,65	22,58	1,36615	24,98	94,92
26	37,89	41,84	3,70919	42,77	93,2
26	38,19	42,08	3,63335	42,5	93,42
27	33,19	36,65	2,89956	38,03	92,49
27	33,48	36,86	2,83704	37,76	92,75
28	28,3	36,59	7,66453	33,13	92,41
28	28,53	36,85	7,54724	32,8	92,59

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29	36,63	46,1	19,93245	41,44	90,71
29	36,99	46,4	19,3375	41,23	90,9
30	37,89	46,37	24,26243	42,7	89,99
30	38,23	46,69	23,88567	42,46	90,15
31	30,93	37,8	7,98847	35,74	90,21
31	31,26	38,06	7,9249	35,49	90,43
32	11,48	35,39	1,85885	26,95	37,17
32	11,62	35,46	1,83098	26,66	36,49
33	-23,1	57,26	5,73079	18,86	255,98
33	-22,87	57,18	5,669	19,16	256,54
34	-20,46	50,49	5,83947	17,04	246,74
34	-20,19	50,4	5,82111	17,29	247,35
35	-24,31	62,4	7,64969	19,8	260,08
35	-24,07	62,14	7,43311	20,12	260,42
36	-21,36	59,23	8,64138	17,32	252,92
36	-21,11	58,98	8,44275	17,6	253,49
37	-27,68	60,55	5,62557	23,09	262,13
37	-27,34	60,44	5,64287	23,3	262,55
38	0,29	14,57	1,49466	6,36	126,82
38	0,37	14,48	1,46025	6	129,99
39	-11,17	63,86	7,29471	39,29	350,68
39	-10,96	63,83	7,13458	39,36	350,17
40	-12,46	56,35	4,03028	36,43	347,87
40	-12,29	56,2	3,93401	36,45	347,23
41	-8,97	45,81	3,07197	29,21	351,8
41	-8,85	45,75	2,99442	29,23	350,92
42	4,81	44,06	11,87292	16,58	144,53
42	5,17	43,97	11,55128	16,47	145,18
43	1,26	46,11	10,75839	14,27	154,85
43	1,59	46,11	10,56899	14,19	155,75
44	-1,06	52,27	14,49603	14,17	164,68
44	-0,7	52,24	14,35372	14,1	165,49
45	-9,8	41,9	3,3501	11,36	206,06
45	-9,56	41,9	3,332	11,46	207,67
46	-16,8	54,12	5,95178	14,39	236,43
46	-16,56	53,88	5,76663	14,63	237,39
47	-18,02	55,07	6,33352	15,67	237,48
47	-17,75	54,88	6,17786	15,88	238,32

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HASLIK SONUCLARI

Isık haslığı (ISO 105-B02) 5

Yıkama haslığı (TS EN ISO 105-C06) 4-5

Sürtünme Haslığı (ISO 105-X12) 5

SONUÇ ve DEĞERLENDİRME

26017-(01-05) nolu numunelerin HPLC analizleri yapılmıştır.
26017-(01-05) nolu numunelerin SEM-EDX (Tablo 1-6) analizleri yapılmıştır.
26017 nolu numunelerin CIELAB analizleri yapılmıştır.

Yapılan SEM –EDX analiz sonuclarına göre ağır metal tespit edilmemiştir.

Kullanılan boyarmaddelerin tamamı bitkisel kökenli olup toksik ve kansorojen herhangi bir maddeye rastlanmamıştır.

Yapılan HPLC-DAD analizi sonucuna göre içeriğinde bulunan gallik asit antibakteriyel ve antifungal özellikler göstermektedir.

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