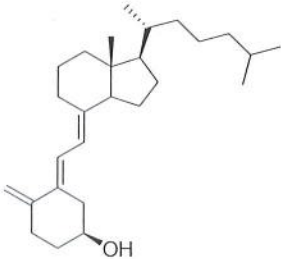


Certificate of Analysis

Name of Product: 5,6-trans-Cholecalciferol		Lot Number: BK-04-175-02
Manufacture Date: 07/19/23	Retested On: n/a	Next Retest Date: 07/18/28
Recommended Storage Conditions:		
<input type="checkbox"/> Ambient atmosphere <input checked="" type="checkbox"/> Inert atmosphere <input type="checkbox"/> Ambient temperature <input type="checkbox"/> 2-8°C (refrigeration) <input checked="" type="checkbox"/> -20°C or below (freezer)		

Structure: 	Molecular Formula: C ₂₇ H ₄₄ O
	Molecular Weight: 384.65
	CAS Number: 22350-41-0


Appearance: White Solid

Purity: 99.3 % by AUC at 275 nm (by HPLC)

Identity: ¹H-NMR - conforms to structure

MS(ESI+ve): [M+H]⁺ = 385.24 - conforms to structure

Dalton Pharma Services hereby certifies that the above information is authentic and accurate.

 <hr style="width: 50%; margin: auto;"/> Xuejun Liu, R&D Chemistry Supervisor	Date: 07/25/23
---	-----------------------

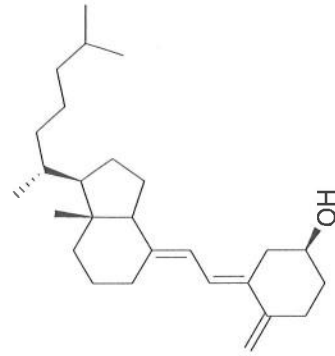
Product name: 5,6-trans-Cholecalciferol
Lot number: BK-04-175-02

RDS# 02881
Page 1 of 1

Research Use Only. Not for food and Drug Use

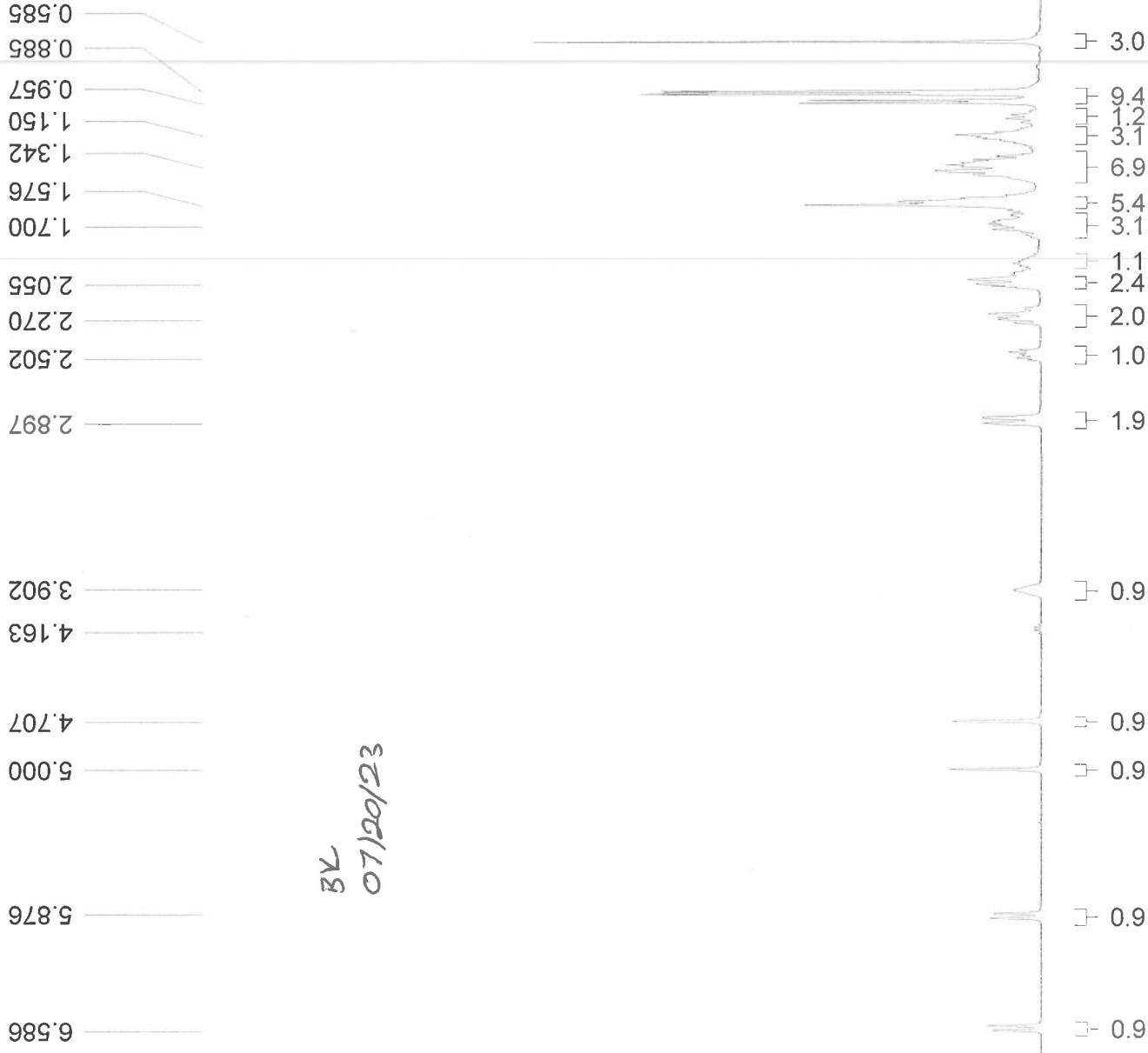
349 Wildcat Rd., Toronto, ON M3J 2S3 • Tel: 416-661-2102 • 1-800-567-5060 • Fax: 416-661-2108
www.dalton.com

Dalton Pharma Services
Date: July 20, 2023am
Solvent: CDCl3
Operator Name: SL
Title: BK-04-175-02



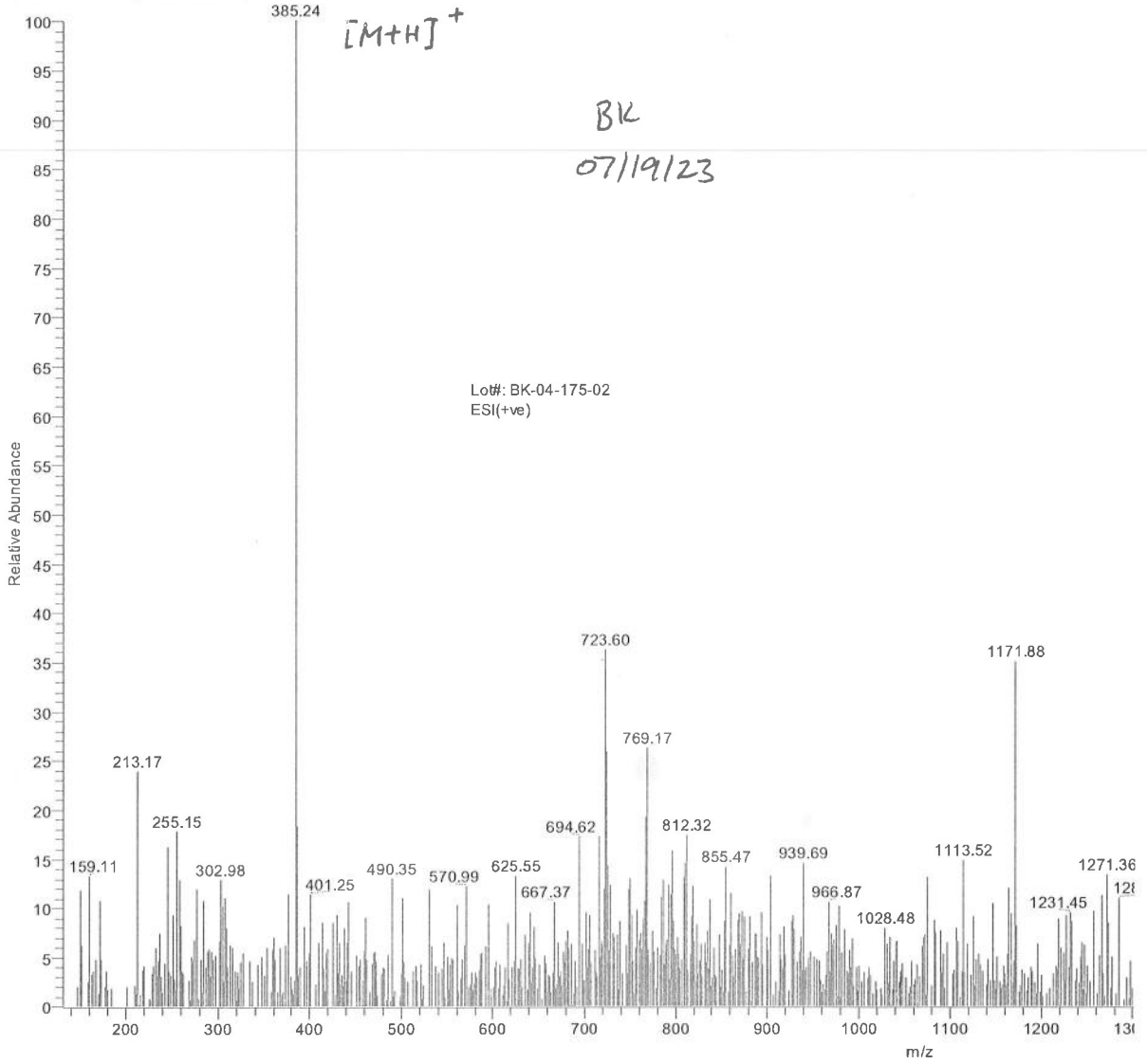
Chemical Formula: C₂₇H₄₄O
Molecular Weight: 384.65

BK
07/20/23



ppm (t1)

BK-04-175-02_230719144156 #288 RT: 7.71 AV: 1 NL: 3.31E5
T: + c ESI Full ms [50.00-2000.00]

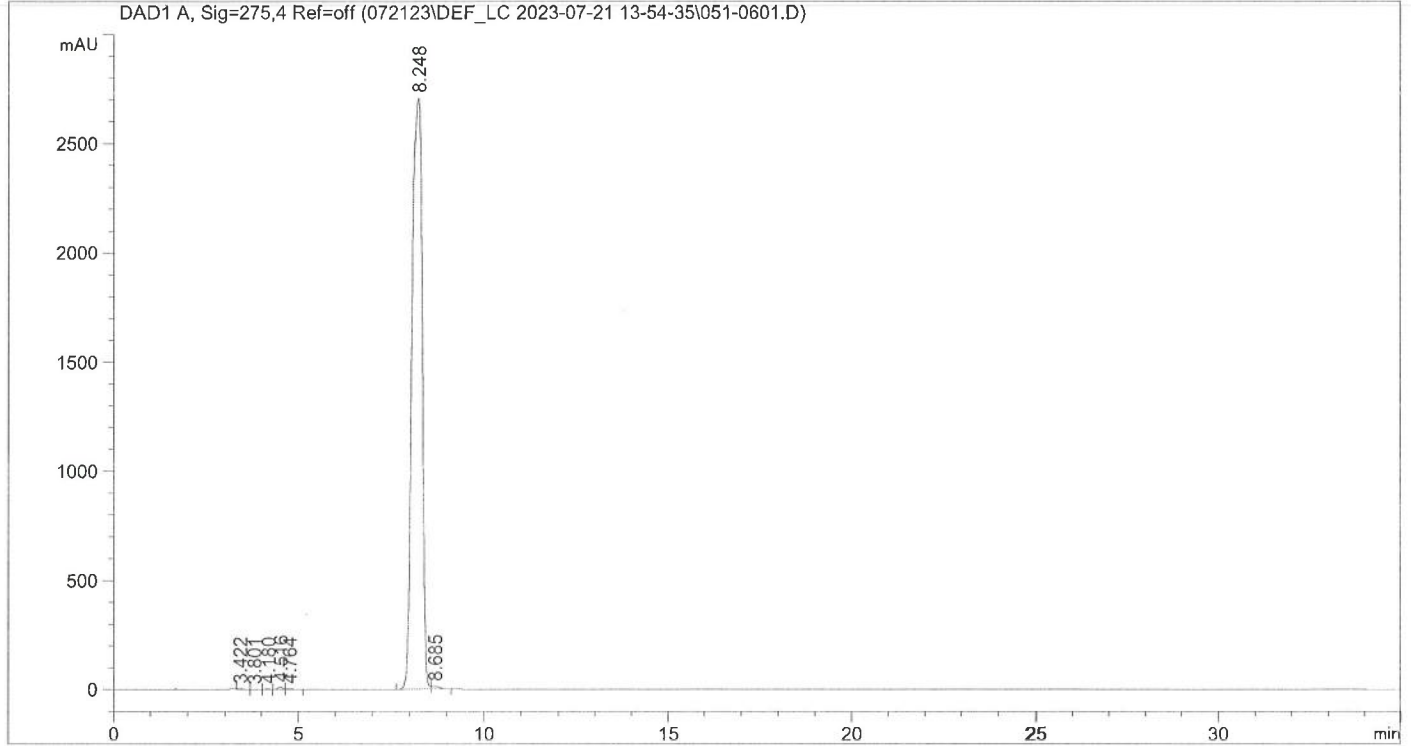


Sample Name: BK-04-175-02

```
=====
Acq. Operator   : VPR                               Seq. Line :    6
Acq. Instrument : Instrument 1                       Location  : Vial 51
Injection Date  : 07/21/23 4:56:55 PM              Inj       :    1
                                                    Inj Volume: 10.000 µl
```

```
Different Inj Volume from Sequence ! Actual Inj Volume : 5.000 µl
Acq. Method    : C:\CHEM32\1\DATA\072123\DEF_LC 2023-07-21 13-54-35\SPS1304.M
Last changed   : 07/21/23 7:22:21 AM by VPR
Analysis Method: C:\CHEM32\1\METHODS\OTS1.M
Last changed   : 07/24/23 6:47:10 AM by VPR
                (modified after loading)
```

Additional Info : Peak(s) manually integrated



Area Percent Report

```
Sorted By      :      Signal
Multiplier:    :      1.0000
Dilution:      :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

SPS 07/25/23

Signal 1: DAD1 A, Sig=275,4 Ref=off

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	3.422	VV	0.1685	24.05777	2.11909	0.0464
2	3.801	VV	0.1525	9.09825	8.38798e-1	0.0176
3	4.180	VB	0.1375	18.35610	2.15296	0.0354
4	4.516	BV	0.1422	97.70292	10.94378	0.1885
5	4.764	VB	0.1777	31.63342	2.40110	0.0610
6	8.248	BV	0.2719	5.14660e4	2705.92065	99.2935

Sample Name: BK-04-175-02

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
7	8.685	VB	0.2322	185.32423	12.55451	0.3575

Totals : 5.18322e4 2736.93089

=====
*** End of Report ***

SPS 07/25/23

Sample Name: BK-04-175-02

```

=====
Acq. Operator   : VPR                               Seq. Line :    6
Acq. Instrument : Instrument 1                       Location  : Vial 51
Injection Date  : 07/21/23 4:56:55 PM              Inj       :    1
                                                    Inj Volume: 10.000 µl

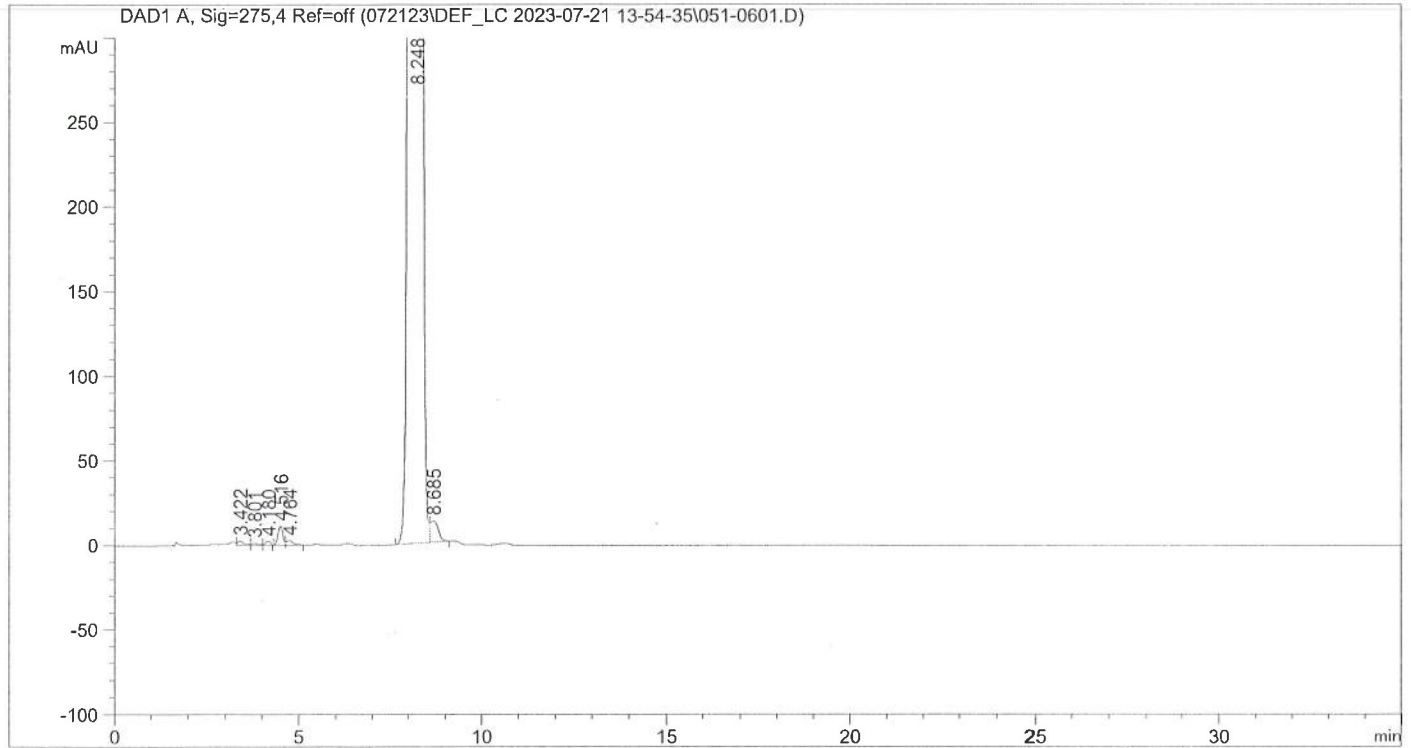
```

```

Different Inj Volume from Sequence ! Actual Inj Volume : 5.000 µl
Acq. Method    : C:\CHEM32\1\DATA\072123\DEF_LC 2023-07-21 13-54-35\SPS1304.M
Last changed   : 07/21/23 7:22:21 AM by VPR
Analysis Method: C:\CHEM32\1\METHODS\OTS1.M
Last changed   : 07/24/23 6:46:26 AM by VPR
                (modified after loading)

```

Additional Info : Peak(s) manually integrated



```

=====
                          Area Percent Report
=====

```

```

Sorted By           :      Signal
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs

```

Signal 1: DAD1 A, Sig=275,4 Ref=off

SPS 07/25/23

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	3.422	VV	0.1685	24.05777	2.11909	0.0464
2	3.801	VV	0.1525	9.09825	8.38798e-1	0.0176
3	4.180	VB	0.1375	18.35610	2.15296	0.0354
4	4.516	BV	0.1422	97.70292	10.94378	0.1885
5	4.764	VB	0.1777	31.63342	2.40110	0.0610
6	8.248	BV	0.2719	5.14660e4	2705.92065	99.2935

Sample Name: BK-04-175-02

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
7	8.685	VB	0.2322	185.32423	12.55451	0.3575

Totals : 5.18322e4 2736.93089

=====
*** End of Report ***

SPS
07/25/23

