

**Name:** 11-Oxo-Betamethasone-17-Carboxylic Acid  
**Lot#:** VR-2-249  
**Test Date:** 02/28/2019 (re-test date: 02/28/2024)  
**CAS No.:** NA  
**MF:** C<sub>21</sub>H<sub>25</sub>FO<sub>5</sub>  
**MW:** 376.42  
**Appearance:** White Solid  
**Purity:** 96.5% by HPLC  
**<sup>1</sup>H-NMR:** Conforms  
**MS-ESI (+)** Conforms (shows peaks at m/z = 377.17 [M+H]<sup>+</sup> and 399.16 [M+Na]<sup>+</sup>)

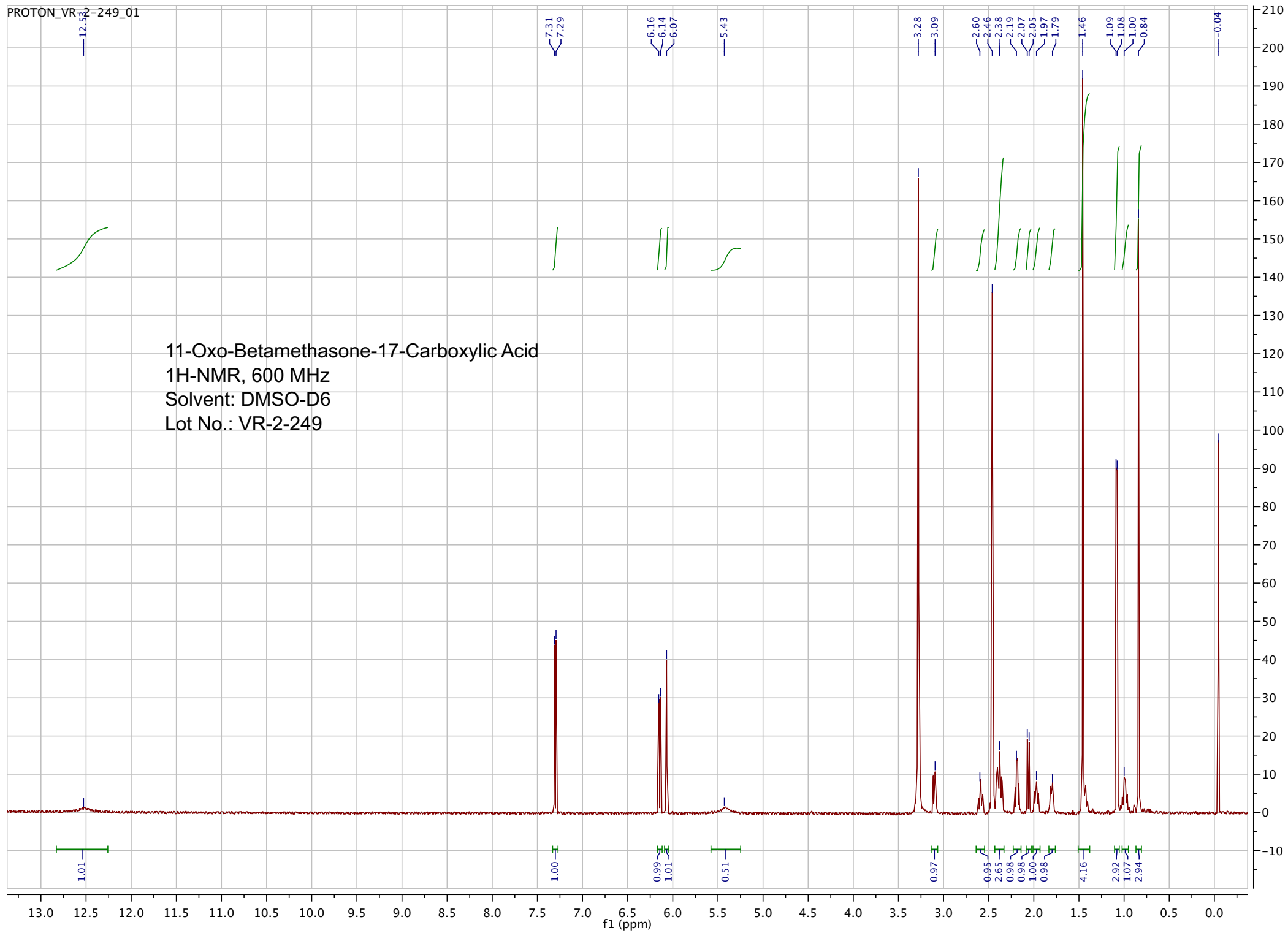
Approved by:

Date: 03/08/2019



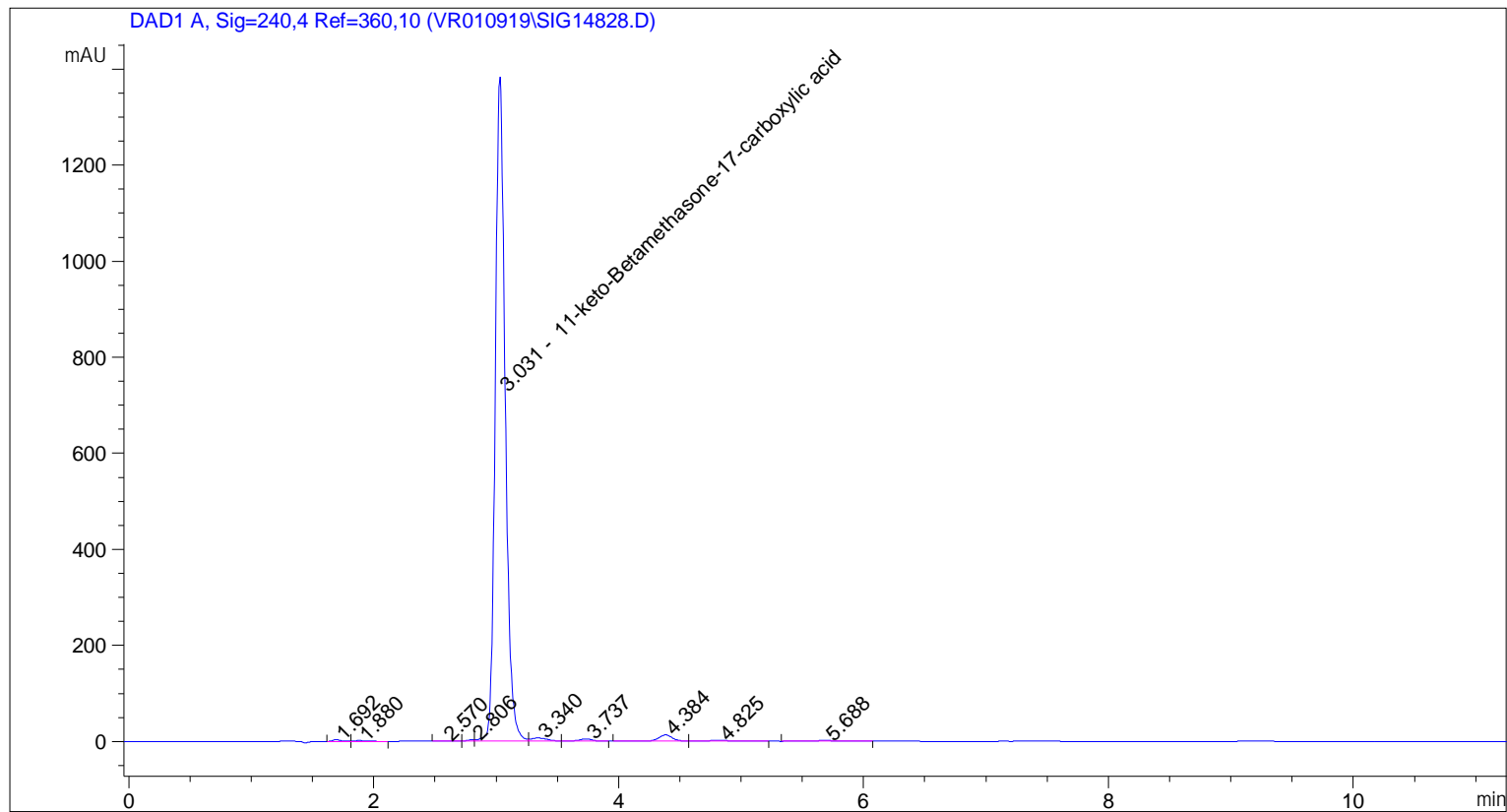
Viorica Rusu, QC/QA Manager

11-Oxo-Betamethasone-17-Carboxylic Acid  
 1H-NMR, 600 MHz  
 Solvent: DMSO-D6  
 Lot No.: VR-2-249



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Acq. Operator   : vrusu
Acq. Instrument : Instrument 1
Injection Date  : 2/28/2019 2:45:55 PM
Location        : Vial 1
Inj Volume     : 5.0 µl
Acq. Method    : C:\CHEM32\1\METHODS\VR022819_249.M
Last changed   : 2/28/2019 2:40:31 PM by vrusu
Analysis Method : C:\CHEM32\1\METHODS\VR022819_249PM.M
Last changed   : 2/28/2019 4:01:01 PM by vrusu
  
```



Area Percent Report

```

Sorted By      : Signal
Calib. Data Modified : 2/28/2019 4:00:26 PM
Multiplier:    : 1.0000
Dilution:      : 1.0000
Use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=240,4 Ref=360,10

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
1	1.692	BV	0.0665	16.70026	0.2049	?
2	1.880	VB	0.0853	10.60229	0.1301	?
3	2.570	BB	0.1333	8.39538	0.1030	?
4	2.806	BV	0.0576	9.42186	0.1156	?
5	3.031	VV	0.0884	7867.97119	96.5225	11-keto-Betamethasone-17-carboxylic acid
6	3.340	VB	0.1345	53.07435	0.6511	?
7	3.737	BB	0.1050	32.29630	0.3962	?
8	4.384	BV	0.1198	104.19157	1.2782	?

Sample Name: VR-2-249

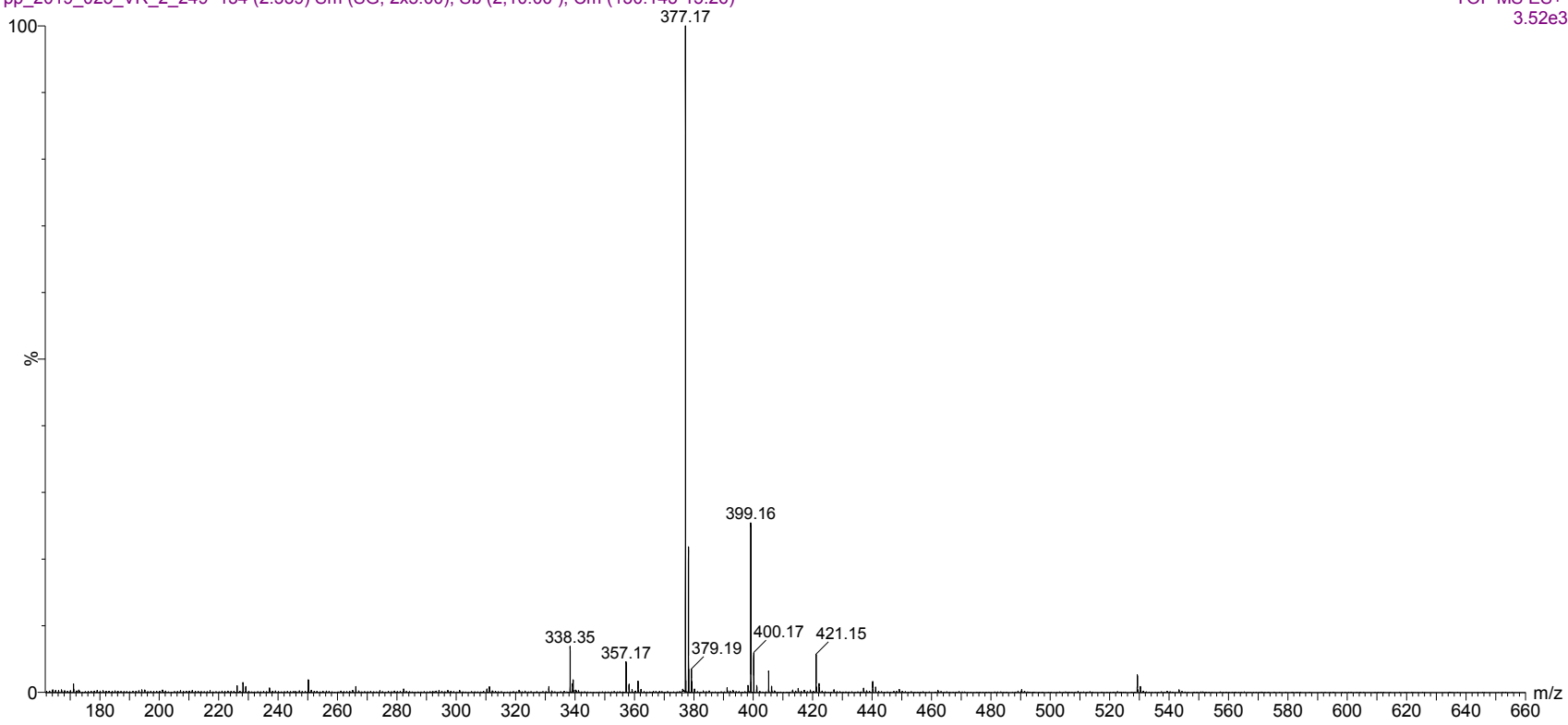
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
9	4.825	VB	0.1648	26.03424	0.3194	?
10	5.688	BV	0.1857	22.74731	0.2791	?

Totals : 8151.43475

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\*\*\* End of Report \*\*\*

pp\_2019\_023\_VR\_2\_249 134 (2.539) Sm (SG, 2x5.00); Sb (2,10.00); Cm (130:143-15:26)

TOF MS ES+  
3.52e3



ESI-MS spectrum for sample VR-2-249. Shows monoisotopic  $[M+H]^+$  mass.