

Name:	5α/6α-Hydroxy Lurasidone-D8 (Lurasidone Inactive Metabolite 14326-D8)
Lot#:	GR-2-239
Test Date:	06/03/2025 (re-test date: 06/03/2030)
CAS No.:	186204-33-1 (unlabelled)
MF:	C ₂₈ H ₂₈ D ₈ N ₄ O ₃ S
MW:	516.73
Appearance:	Off-white solid
Purity:	98.4% by HPLC (average of two sample preparations); 99% atom D
¹H-NMR:	Conforms (contains 0.7% Acetone)
MS-ESI (+)	Conforms (shows peak at m/z = 517.29 [M+H] ⁺)
Storage	Long term store at -18° C in a dry place away from direct sunlight

Approved by:

Date: 06/03/2025

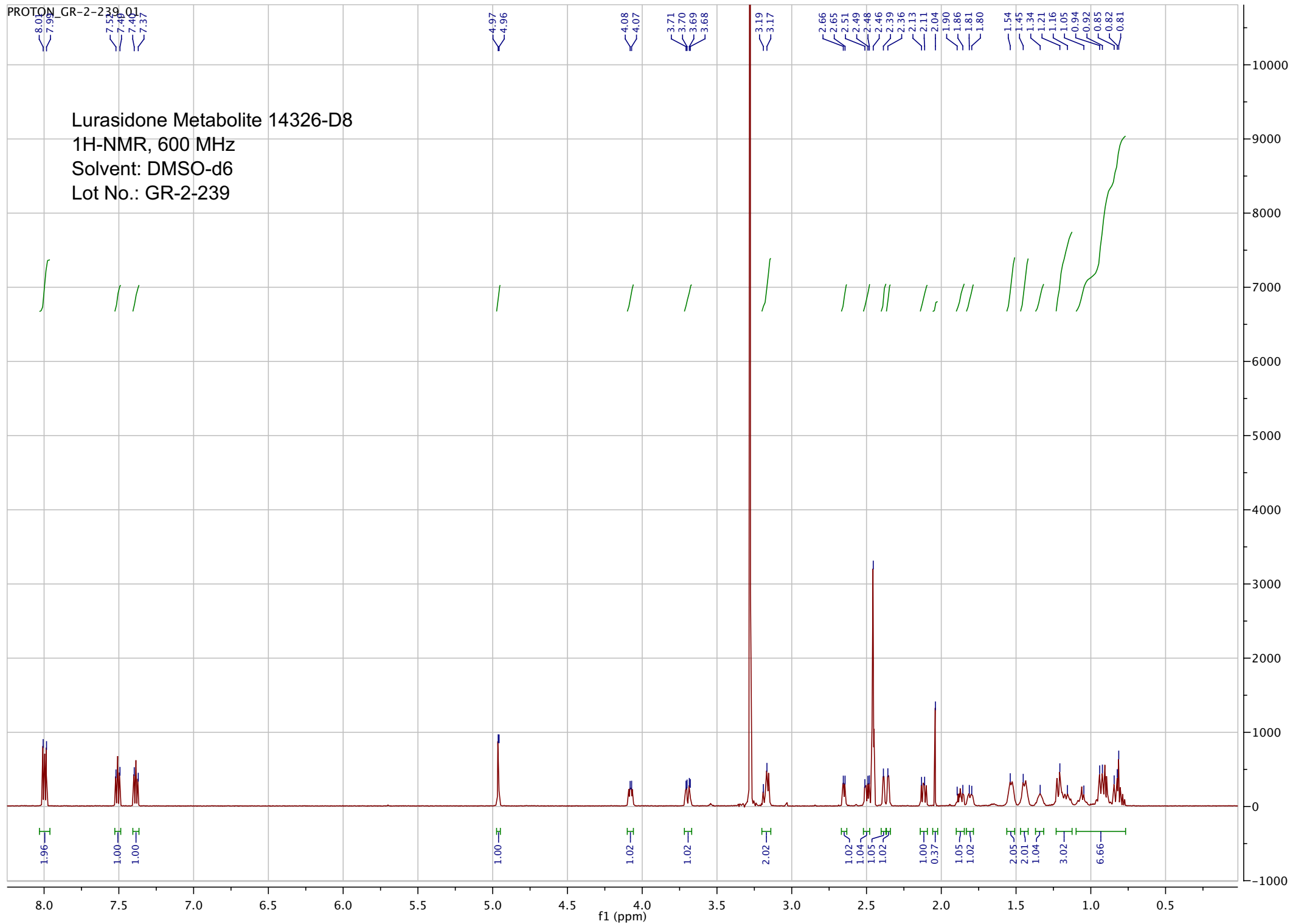
Viorica Rusu, QC/QA Manager

Lurasidone Metabolite 14326-D8

¹H-NMR, 600 MHz

Solvent: DMSO-d₆

Lot No.: GR-2-239



pp_2020_039B _239 36 (1.806) Sm (SG, 2x0.70); Sb (2,10.00); Cm (36:38)

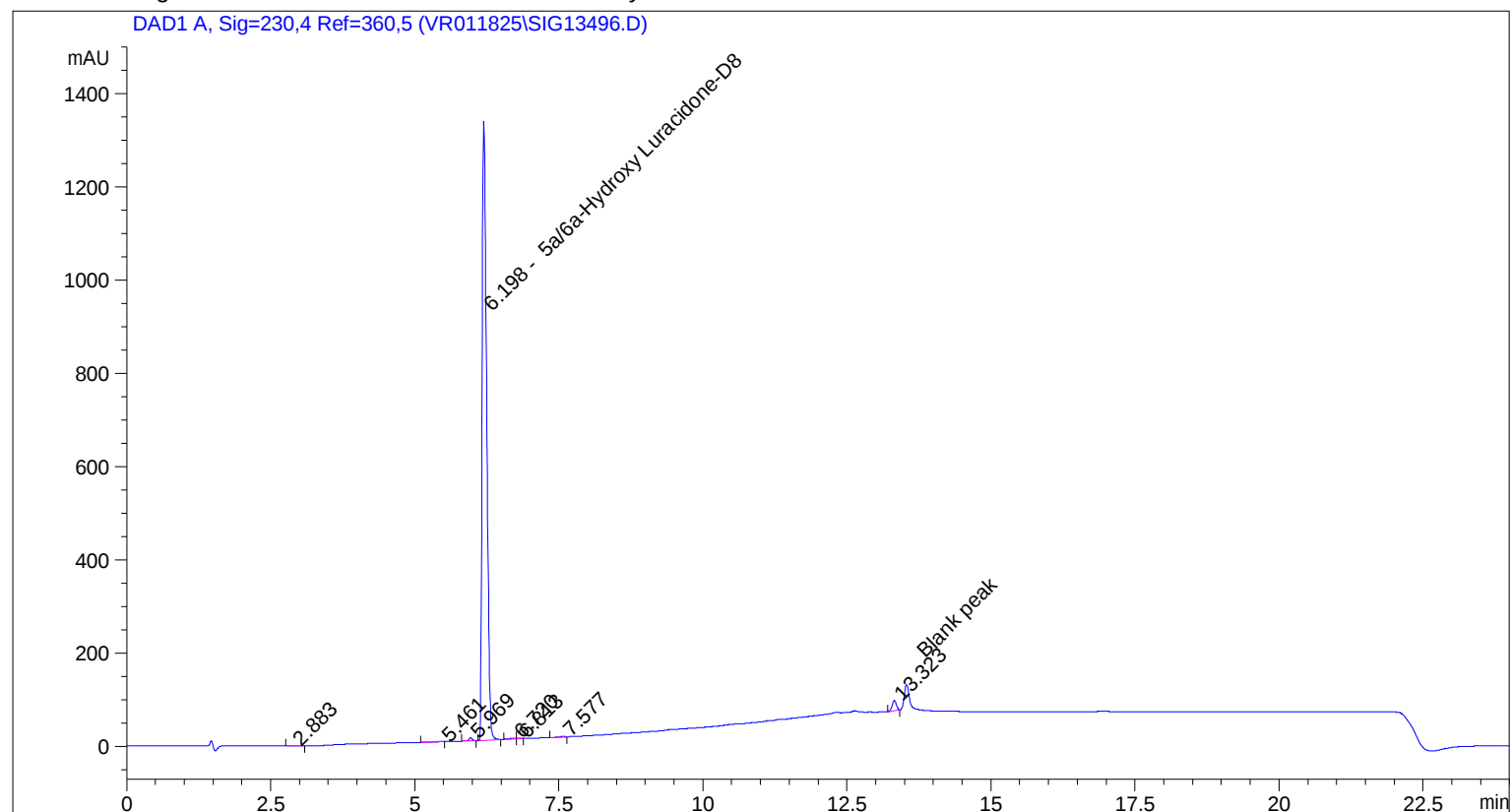
Scan ES+
1.27e7



ESI-MS data for sample GR-2-239. Shows monoisotopic [M+H]⁺ mass.

Sample Name: GR-2-239

```
=====
Acq. Operator   : vrusu
Acq. Instrument : Instrument 1                Location : Vial 63
Injection Date  : 6/3/2025 1:18:51 PM
                                           Inj Volume : 5.0 µl
Acq. Method     : C:\CHEM32\1\METHODS\VR060325_239.M
Last changed    : 6/3/2025 1:17:44 PM by vrusu
Analysis Method : C:\CHEM32\1\METHODS\VR060325_239PM.M
Last changed    : 6/3/2025 3:29:24 PM by vrusu
=====
```



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=====
                          Area Percent Report
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```

```
Sorted By           :      Signal
Calib. Data Modified :      6/3/2025 3:28:32 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: DAD1 A, Sig=230,4 Ref=360,5

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
1	2.883	BB	0.1059	4.76990	0.0647	?
2	5.461	BB	0.0699	5.42261	0.0735	?
3	5.969	BB	0.0593	24.51361	0.3324	?
4	6.198	BB	0.0853	7208.66602	97.7555	5a/6a-Hydroxy Luracidone-D8
5	6.720	BV	0.0940	7.52327	0.1020	?
6	6.813	VB	0.0601	4.68679	0.0636	?
7	7.577	BB	0.0948	5.96070	0.0808	?
8	13.323	BB	0.0806	112.63440	1.5274	?

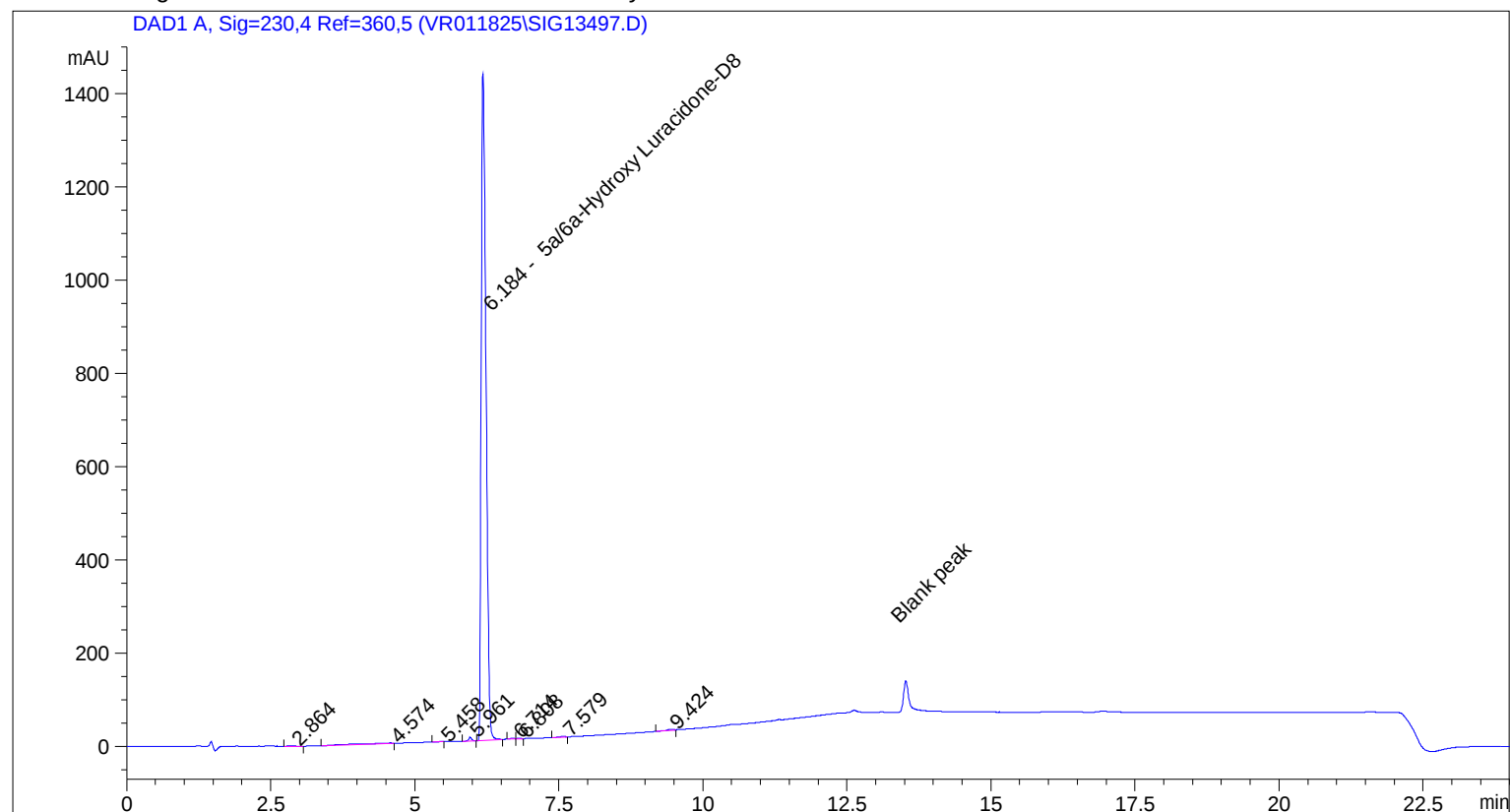
Sample Name: GR-2-239

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
----- ----- ----- ----- ----- ----- -----						
Totals :				7374.17729		

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*** End of Report ***

Sample Name: GR-2-239

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=====
Acq. Operator   : vrusu
Acq. Instrument : Instrument 1                Location : Vial 62
Injection Date  : 6/3/2025 1:45:51 PM
                                           Inj Volume : 5.0 µl
Acq. Method     : C:\CHEM32\1\METHODS\VR060325_239.M
Last changed    : 6/3/2025 1:44:48 PM by vrusu
Analysis Method : C:\CHEM32\1\METHODS\VR060325_239PM.M
Last changed    : 6/3/2025 3:29:24 PM by vrusu
=====
```



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

```
Sorted By           :      Signal
Calib. Data Modified :      6/3/2025 3:28:32 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: DAD1 A, Sig=230,4 Ref=360,5

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
1	2.864	BB	0.0884	6.31772	0.0759	?
2	4.574	BB	1.0565	60.71779	0.7292	?
3	5.458	BB	0.0555	4.91435	0.0590	?
4	5.961	BB	0.0564	28.30820	0.3400	?
5	6.184	BB	0.0908	8196.07324	98.4338	5a/6a-Hydroxy Luracidone-D8
6	6.714	BV	0.0794	6.58155	0.0790	?
7	6.808	VB	0.0587	4.92340	0.0591	?
8	7.579	BB	0.1003	8.00683	0.0962	?

Sample Name: GR-2-239

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
9	9.424	BB	0.1015	10.63585	0.1277	?

Totals : 8326.47892

*** End of Report ***