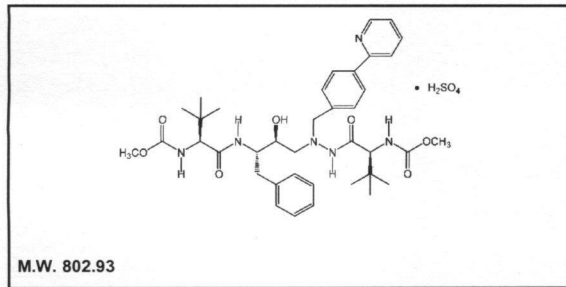




## Product Data Sheet

**M-1923**

### Atazanavir sulfate

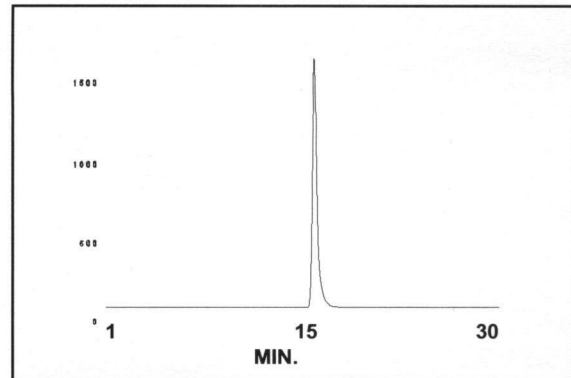


**Lot #:** 219-188-000-A-20120203-JKR

**Packaged as:** Solid

**Date of Analysis:** June 27, 2012

**Chemical Purity @ 250nm:** 99.9%



HPLC ANALYSIS LOT 219-188-000-A-20120203-JKR  
File Name: int21711 Date and Time: 6/27/2012 2:49:21 PM  
Unit 2 UV

Peak #	Area %	Time	Area
1	100.00	15.94330	3929.77256
Totals	100.00		3929.77256

**Storage Recommendation:** Store at 0-5°C.

**Product Warranty:** Stated on the reverse side of this Product Data Sheet.

**Caution:** Not For Use In Humans Or Clinical Diagnosis. This product is intended for investigational or manufacturing use only. It is pharmaceutically unrefined and is not intended for use in humans. Responsibility for its use in humans, as a diagnostic reagent, and compliance with federal laws rests solely with the purchaser.

**M-1923**

**Atazanavir sulfate**

**Lot 219-188-000-A-20120203-JKR**

**A) All chromatograms were run using the HPLC method described on the Product Data Sheet.**

**Concentrations and volumes:**

**Atazanavir sulfate** concentration was 2.0 mg/ml.

Volume of **Atazanavir sulfate** injection was 3.0  $\mu$ l.

**B) Mass spectrometry - Positive mode**

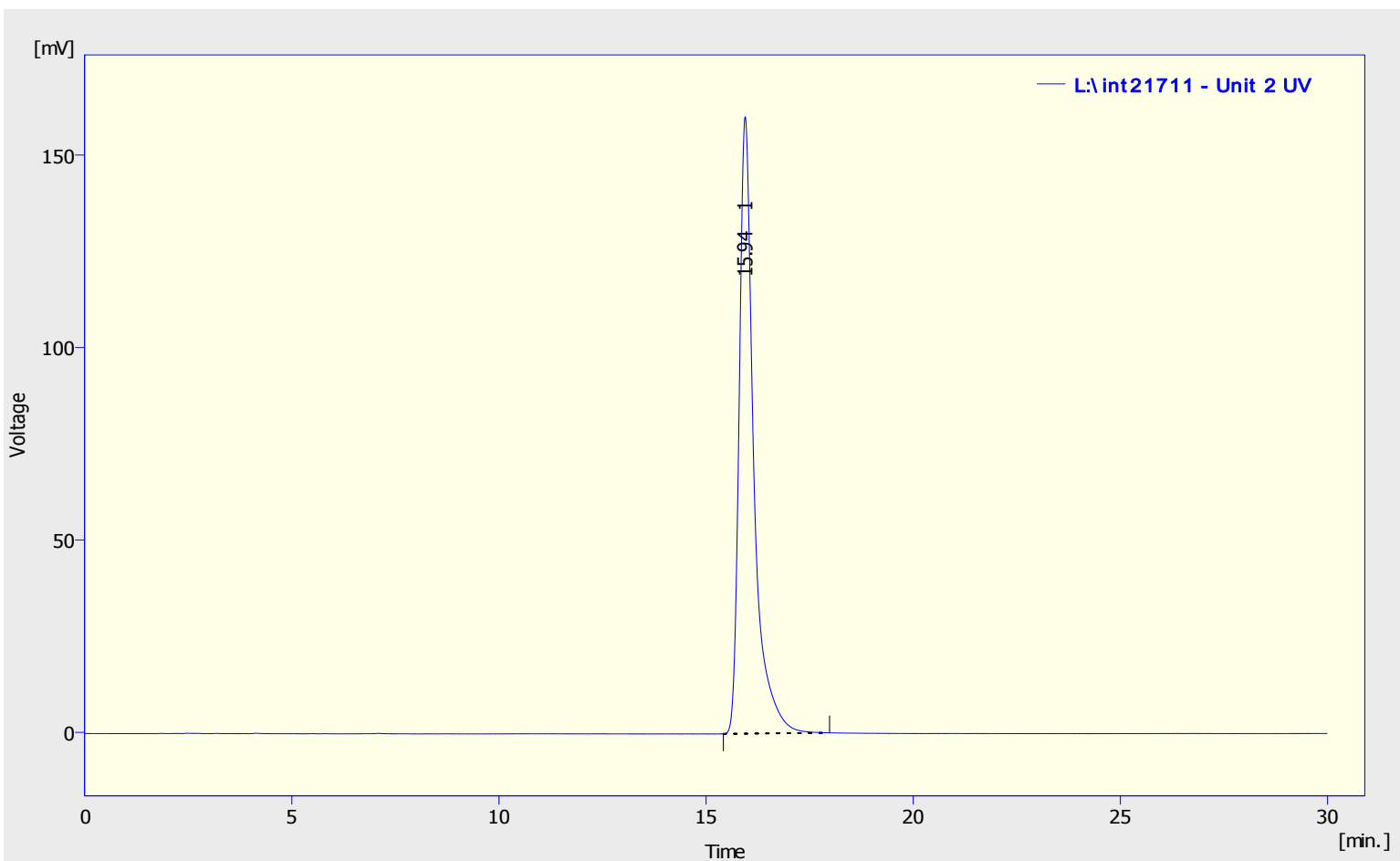
**C) NMR**

**D) UV spectrum**

**M-1923**  
**Atazanavir sulfate**  
**Lot 219-188-000-A-20120203-JKR**

Chromatogram Info:

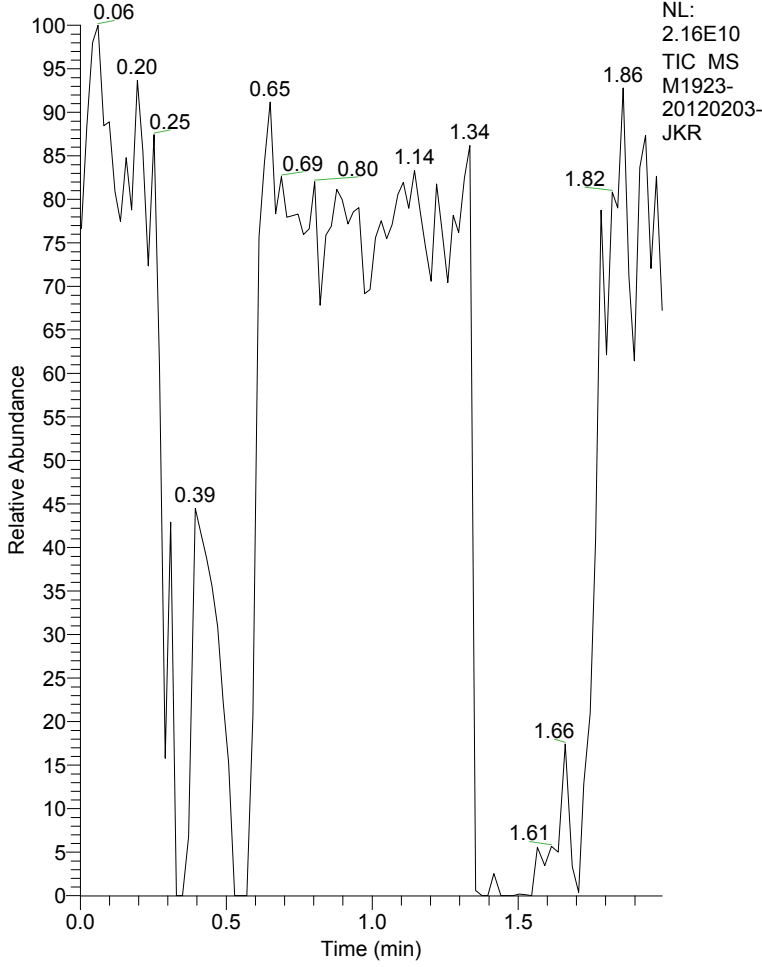
File Name	: L:\int21711	File Created	: 6/27/2012 2:49:39 PM
Origin	: Acquired, Acquisition started 6/27/2012 2:19:21 PM	Acquired Date	: 6/27/2012 2:49:21 PM
Project	: Work1	By	: Administrator
Method	: Unit2-30minrun	By	: Administrator
Description	: UV trace of Atazanavir sulfate	Modified	: 6/27/2012 3:39 PM
Created	: 7/20/2007 9:39 AM		
Column	:	Detection	: UV 250nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



Result Table (Uncal - L:\int21711 - Unit 2 UV)

	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	W05 [min]
1	15.943	3929.773	160.287	100.000	100.0	0.34
	Total	3929.773	160.287	100.000	100.0	

RT: 0.00 - 1.99



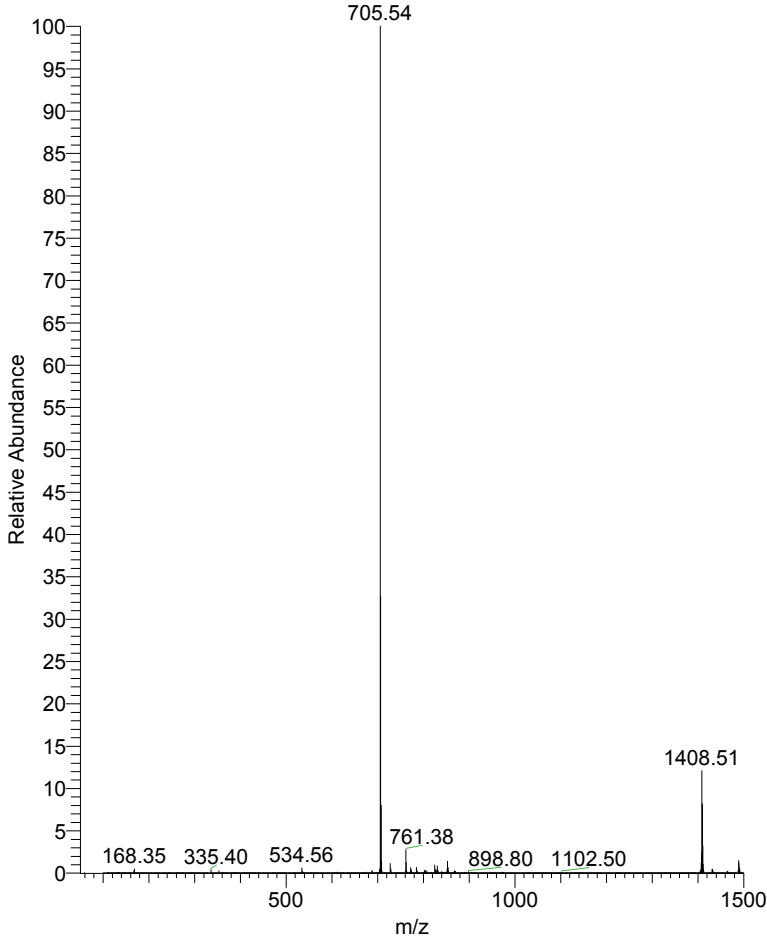
M1923-20120203-JKR#1-102 RT: 0.00-1.99

T: + c NSI Full ms [ 50.00-1500.00]

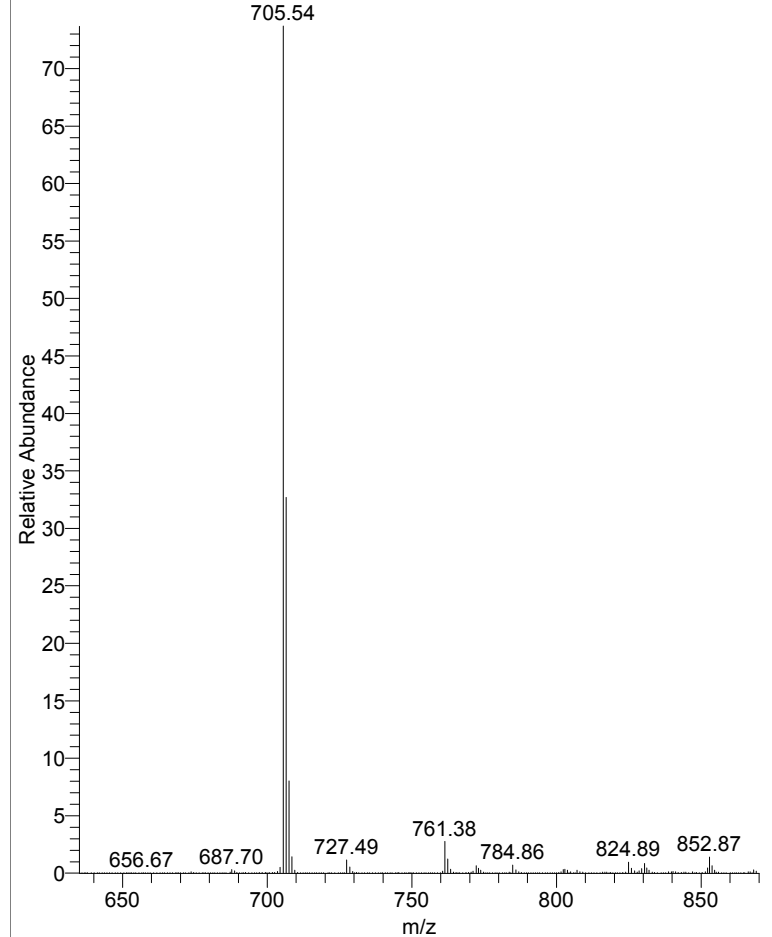
m/z = 686.26-734.36

m/z	Intensity	Relative
704.45	26427940.1	0.48
705.54	5459173528.4	100.00
706.57	1783840689.9	32.68
707.54	436328769.4	7.99
708.51	76047344.6	1.39
709.51	12533518.7	0.23
710.47	2131291.4	0.04
727.49	61662076.5	1.13
728.52	28066227.8	0.51
729.50	6815371.9	0.12
730.85	2045510.9	0.04

M1923-20120203-JKR #1-102 RT: 0.00-1.99 AV: 102 NL: 5.46E9  
T: + c NSI Full ms [ 50.00-1500.00]



M1923-20120203-JKR #1-102 RT: 0.00-1.99 AV: 102 NL: 5.46E9  
T: + c NSI Full ms [ 50.00-1500.00]



M1923 1H NMR in MeOD  
Batch 20120203-JKR

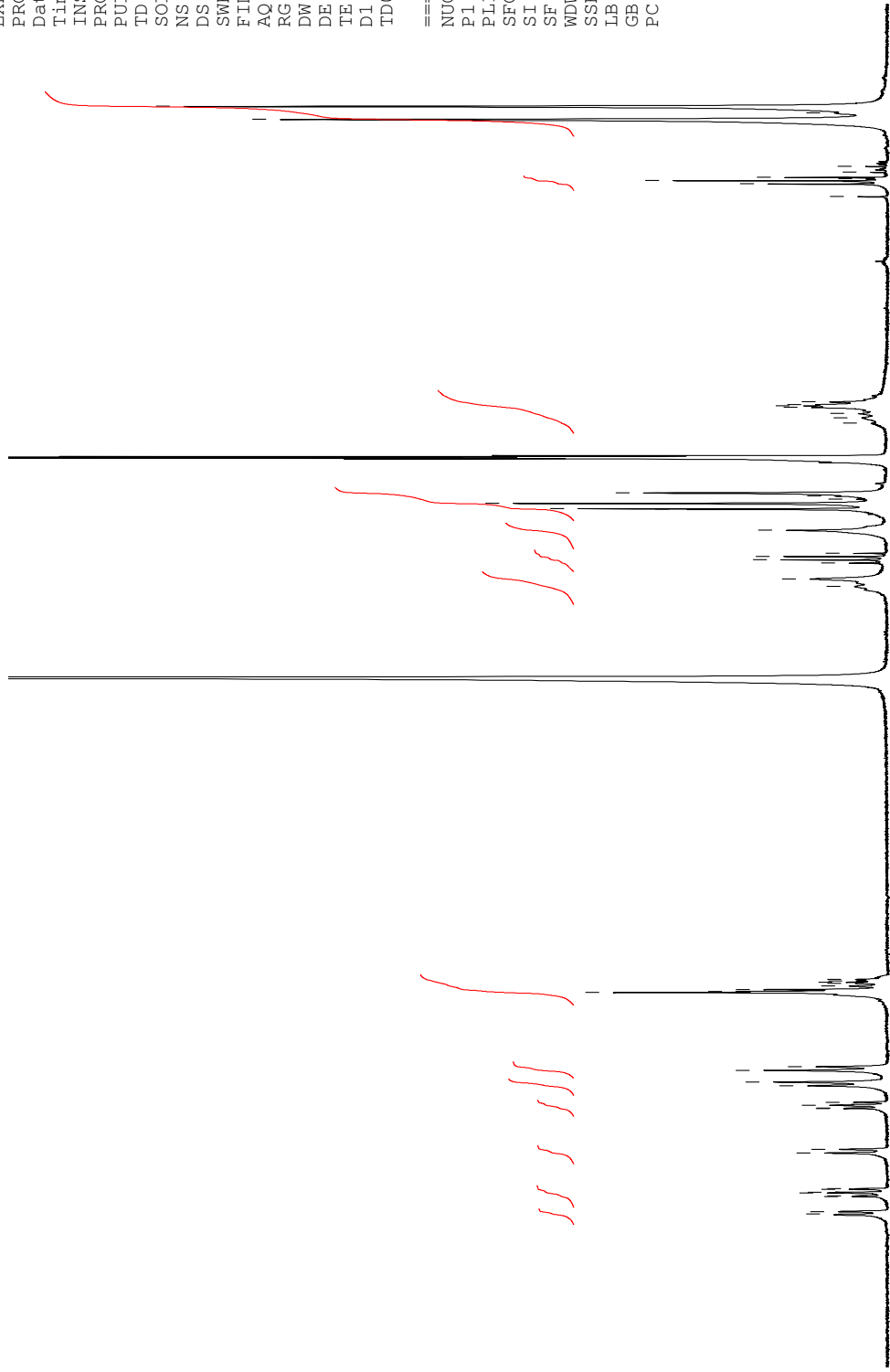


8.875 8.859 8.859 8.748 8.742 8.721 8.716 8.695 8.689 8.428 8.402 8.102 8.099 8.078 8.057 7.935 7.908 7.823 7.795 7.751 7.244 7.230 7.203 7.184 7.176 7.167 7.155

NAME M1923-20120203-JKR

EXPNO 1  
PROCNO 1  
Date\_ 20120614  
Time\_ 16.52  
INSTRUM spect  
PROBHD 5 mm DUX 3H-1H  
PULPROG zg30  
TD 65536  
SOLVENT MeOD  
NS 512  
DS 2  
SWH 6172.839 Hz  
FIDRES 0.094190 Hz  
AQ 5.3084660 sec  
RG 4  
DW 81.000 usec  
DE 6.50 usec  
TE 300.0 K  
D1 1.00000000 sec  
TD0 1

==== CHANNEL f1 =====  
NUC1 1H  
P1 10.25 usec  
PL1 0.00 dB  
SFO1 300.1318534 MHz  
SI 32768  
SF 300.1300000 MHz  
WDW no  
SSB 0  
LB 0.00 Hz  
GB 0  
PC 1.00



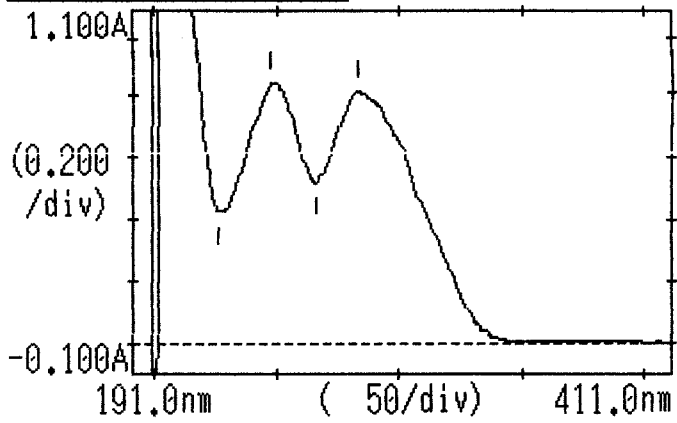
0.753  
0.802  
0.849  
1.194  
1.236  
1.274  
1.285  
1.298  
1.322  
1.415  
2.920  
2.941  
2.950  
2.961  
3.006  
3.038  
3.076  
3.588  
3.610  
3.634  
3.665  
3.704  
3.707  
3.707  
3.861  
4.031  
4.054  
4.078  
4.102  
4.219  
4.274  
5.22  
7.203  
7.230  
7.244  
7.155  
7.167  
7.176  
7.184  
7.908  
7.935  
7.957  
8.057  
8.078  
8.099  
8.102  
8.402  
8.428  
8.689  
8.695  
8.716  
8.721  
8.742  
8.748  
8.859  
8.875

18.00  
1.71  
4.64  
8.14  
2.32  
1.35  
3.12  
5.22  
2.07  
2.23  
1.23  
1.23  
1.26  
1.19

1 1 2 3 4 5 6 7 8 9

ppm

Peak/Valley Detect



Date: 2012/06/21 07:13:23  
Measure mode: Abs  
Scan range / nm: 411.0 - 191.0  
Scan pitch / nm: 1.0  
Scan speed: Fast  
Slit width / nm: 1.0

Peak  
282.00 0.803  
247.00 0.830  
Valley  
266.00 0.516  
226.00 0.422