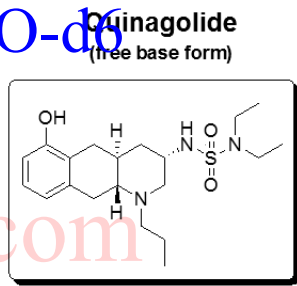


Quinagolide free base H1 NMR analysis, solvent = DMSO-d6

free base

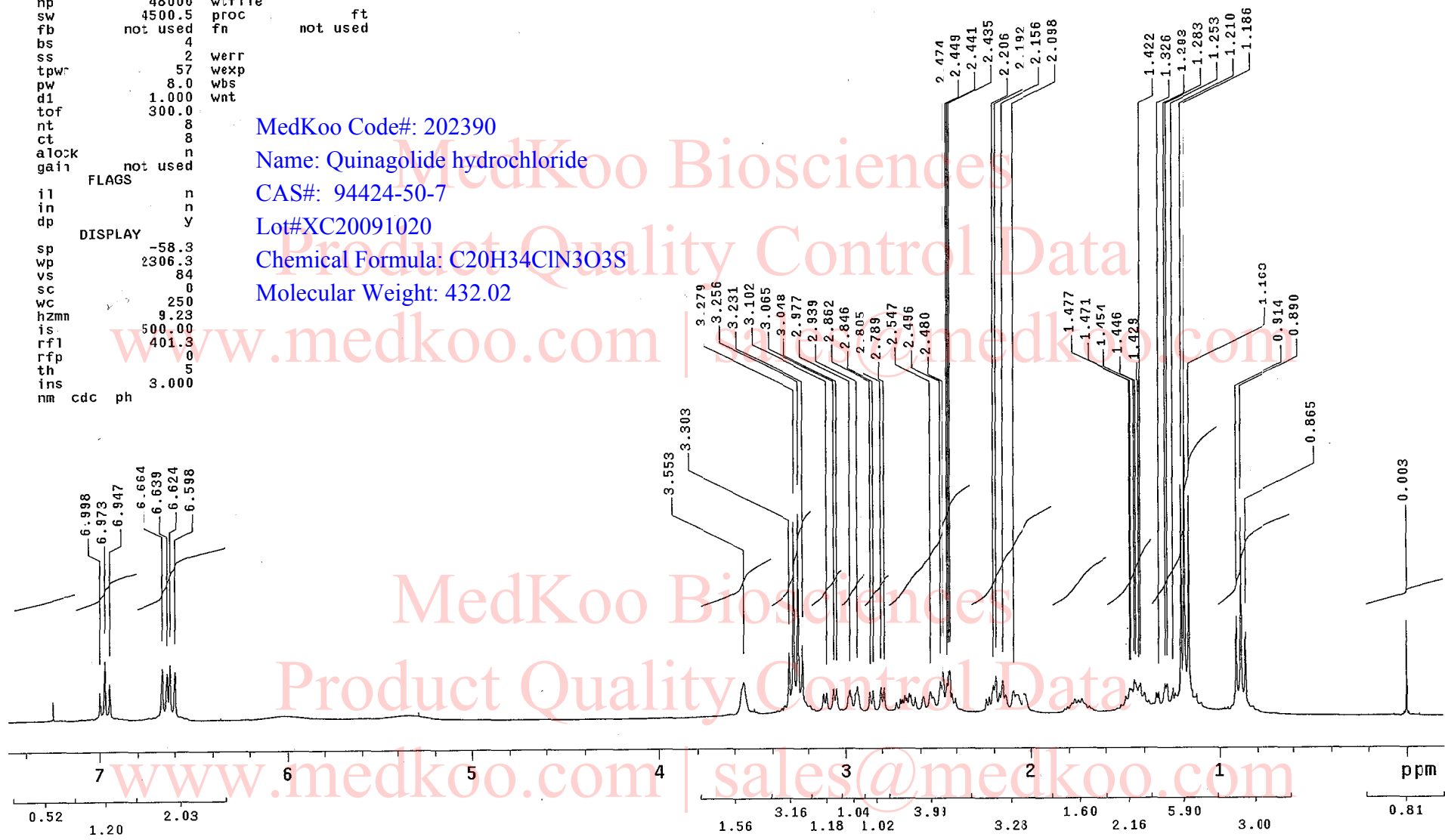


H¹-NMR

```

CX113009
expl std1h
SAMPLE
dat: Dec 1 2009 dfrq 300.141
solvent CDC13 dn H1
file /export/home/~ dprw 30
smsf/vnmr/sys/data/~ dof 0
CX113009-H1.fid dn nnn
ACQUISITION dnm c
sfrq 300.142 dnf 200
tn H1 temp 25.0
at 5.333
np 48000 wtfile
sw 4500.5 proc
fb not used fn not used
bs 4
ss 2 werr
tpwr 57 wexp
pw 8.0 wbs
d1 1.000 wnt
tof 300.0
nt 8
ct 8
alock n
gain not used
FLAGS
il n
in n
dp y
DISPLAY
sp -58.3
wp 2306.3
vs 84
sc 0
wc 250
hzmm 9.23
is 500.00
rfl 401.3
rfp 0
th 5
ins 3.000
nm cdc ph
    
```

MedKoo Code#: 202390
Name: Quinagolide hydrochloride
CAS#: 94424-50-7
Lot#XC20091020
Chemical Formula: C₂₀H₃₄N₃O₃S
Molecular Weight: 432.02



Quinagolide HCl H1 NMR analysis, solvent = DMSO-d6

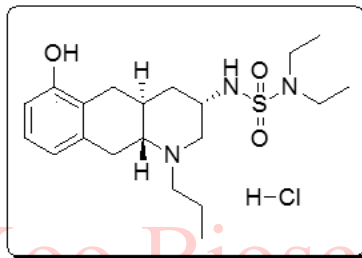
Product Quality Control Data

CX120109

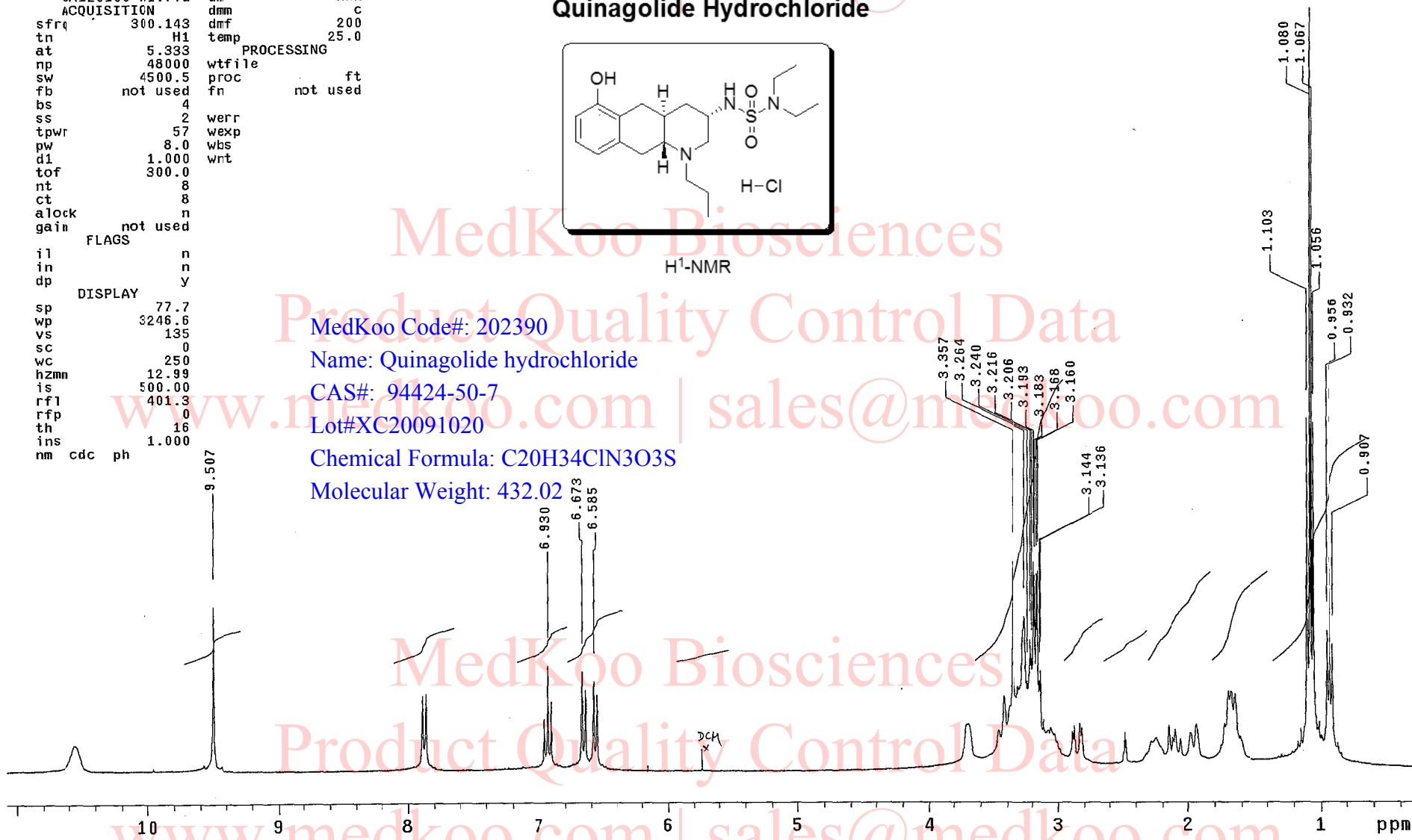
exp: std1h

SAMPLE DEC. & VT
date Dec 7 2009 dfrq 300.143
solvent DMSO dn H1
file /export/home/~ dpwr 30
sms/vnmr/sys/data/~ dof 0
CX120109-H1.fid dm nnn
ACQUISITION dmm c
sfrq 300.143 dmf 200
tn H1 temp 25.0
at 5.333 PROCESSING
np 48000 wtfile
sw 4500.5 proc ft
fb not used fn not used
bs 4 werr
ss 2 wexp
tpwr 57 wbs
pw 8.0 wnt
d1 1.000
tof 300.0
nt 8
ct 8
alock n
gain not used
FLAGS
il n
in n
dp y
DISPLAY
sp 77.7
wp 3246.6
vs 135
sc 0
wc 250
hzmm 12.99
is 500.00
rf1 401.3
rfp 0
th 16
ins 1.000
nm cdc ph

Quinagolide Hydrochloride



H¹-NMR



MedKoo Code#: 202390

Name: Quinagolide hydrochloride

CAS#: 94424-50-7

Lot#XC20091020

Chemical Formula: C₂₀H₃₄CIN₃O₃S

Molecular Weight: 432.02

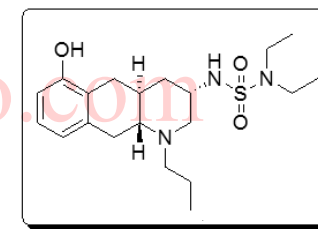
MedKoo Biosciences Quinagolide HCl C13-NMR analysis, solvent = CDCl3 Product Quality Control Data

CX113009

expl std13c

```
SAMPLE          DEC. & VT
dat:   Dec 1 2009  dfrq      300.141
solvent CDC13      dr       H1
fil: /export/home/~ dpwr     44
sms: /vnmrsys/data/~ dcf     -200.0
CX113009-C13.fid  dr       nyy
ACQUISITION      dnm       w
sfr1      75.478  dmf      8000
tn         C13    temp     25.0
at         1.815  PROCESSING
np         68096  lk       3.00
sw         18761.7 wtfile
fb         10400  proc
bs         4      fr       not used
ss         2
tpw       63     werr
pw         8.7   wexp
d1         1.000 wts
tof        0     wnt
nt         800
ct         168
alok      n
gain      not used
FLAGS
il         n
in         n
dp         Y
DISPLAY
sp         438.8
wp         11957.0
vs         22
sc         0
wc         250
hzm       47.83
is         500.00
rf1       1804.2
rfp        0
th         4
ins       100.000
nm no ph
```

Quinagolide
(free base form)



C¹³-NMR

MedKoo Code#: 202390

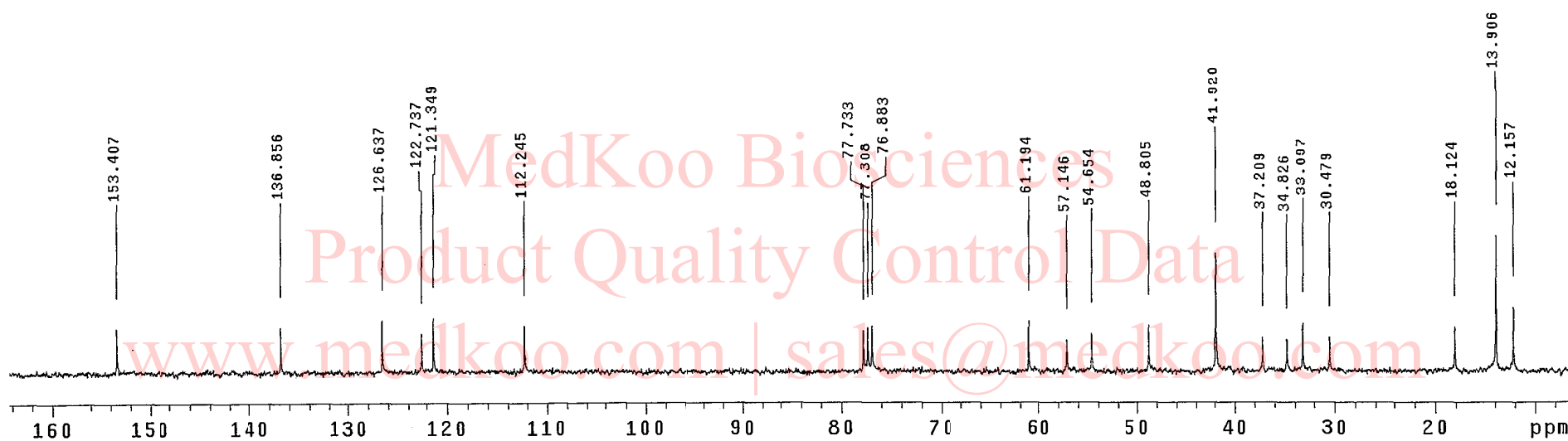
Name: Quinagolide hydrochloride

CAS#: 94424-50-7

Lot#XC20091020

Chemical Formula: C₂₀H₃₄N₃O₃S

Molecular Weight: 432.02

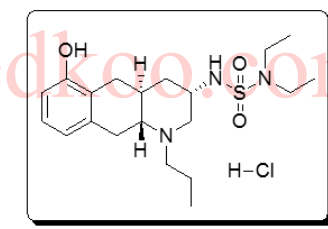


Quinagolide HCl C13 NMR analysis, solvent = DMSO-d6

CX120109
expl std13c

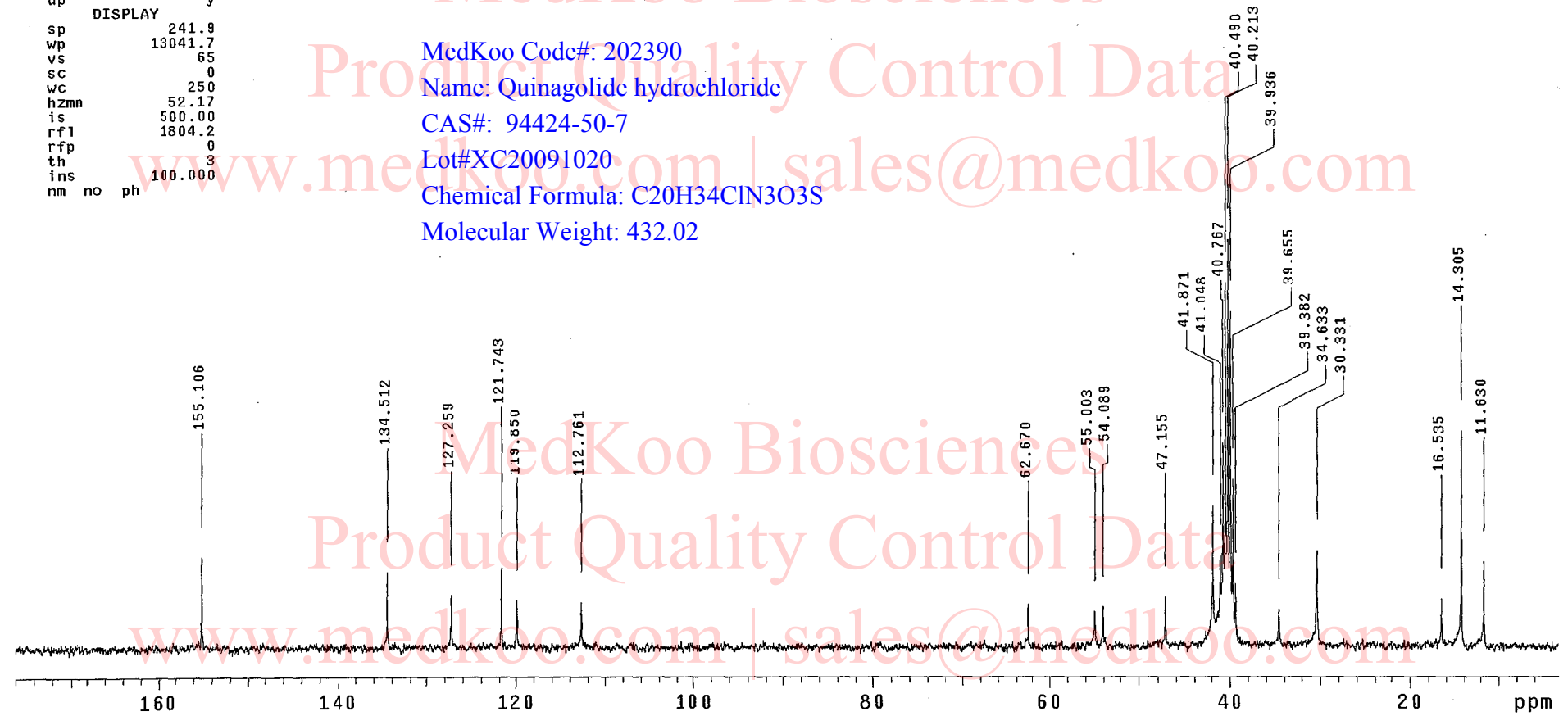
SAMPLE DEC. & VT
dat Dec 7 2009 dfrq 300.143
solvent DMSO dn H1
fil exp dgwr 44
ACQUISITION dof -200.0
sfrq 75.478 dm nny
tn C13 dmm w
at 1.815 dmf 8000
np 68096 temp 25.0
sw 18761.7 PROCESSING
fb 10400 lb 3.00
bs 4 wtfile
ss 2 proc ft
tpwr 63 fr not used
pw 8.7
d1 1.000 werr
tof 0 wexp
nt 800 wts
ct 500 wrt
alock n
gain not used
FLAGS
il n
in n
dp Y
DISPLAY
sp 241.9
wp 13041.7
vs 65
sc 0
wc 250
hzmn 52.17
is 500.00
rfl 1804.2
rfp 0
th 3
ins 100.000
nm no ph

Quinagolide Hydrochloride



MedKoo Biosciences

MedKoo Code#: 202390
Name: Quinagolide hydrochloride
CAS#: 94424-50-7
Lot#XC20091020
Chemical Formula: C20H34ClN3O3S
Molecular Weight: 432.02

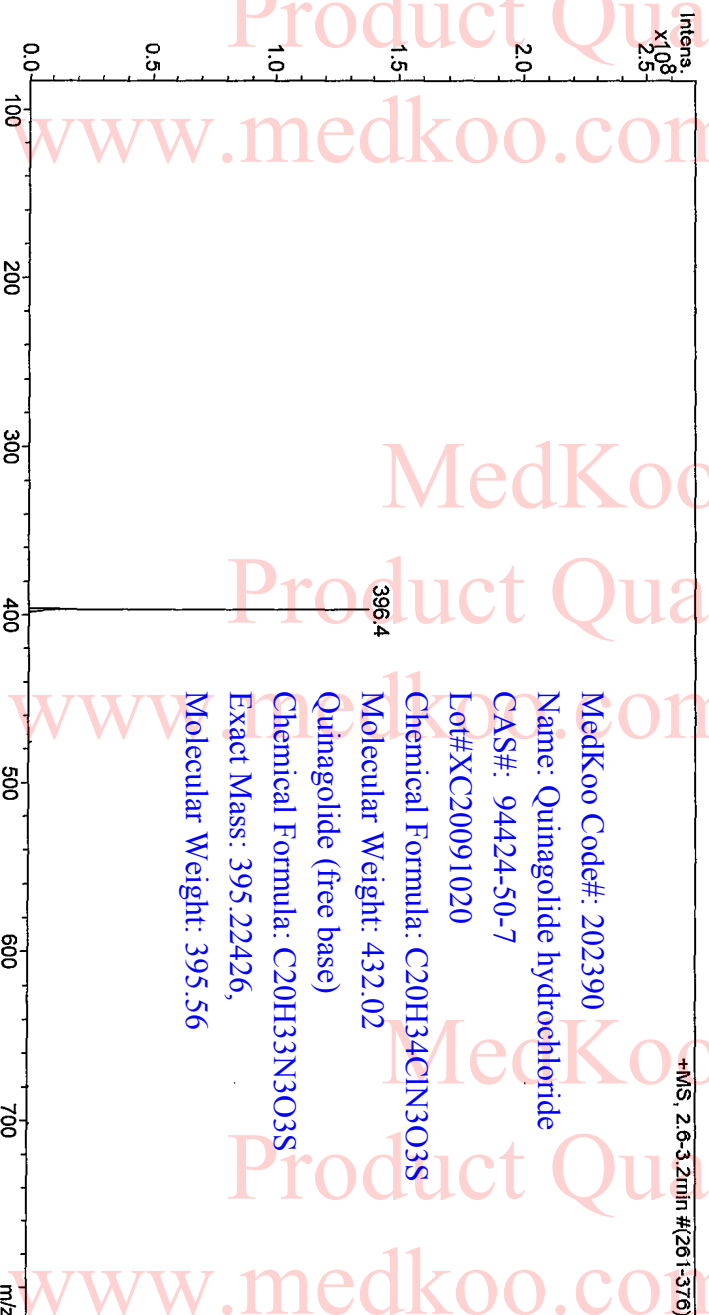
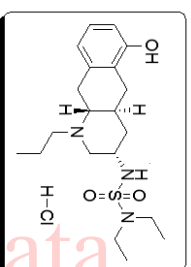
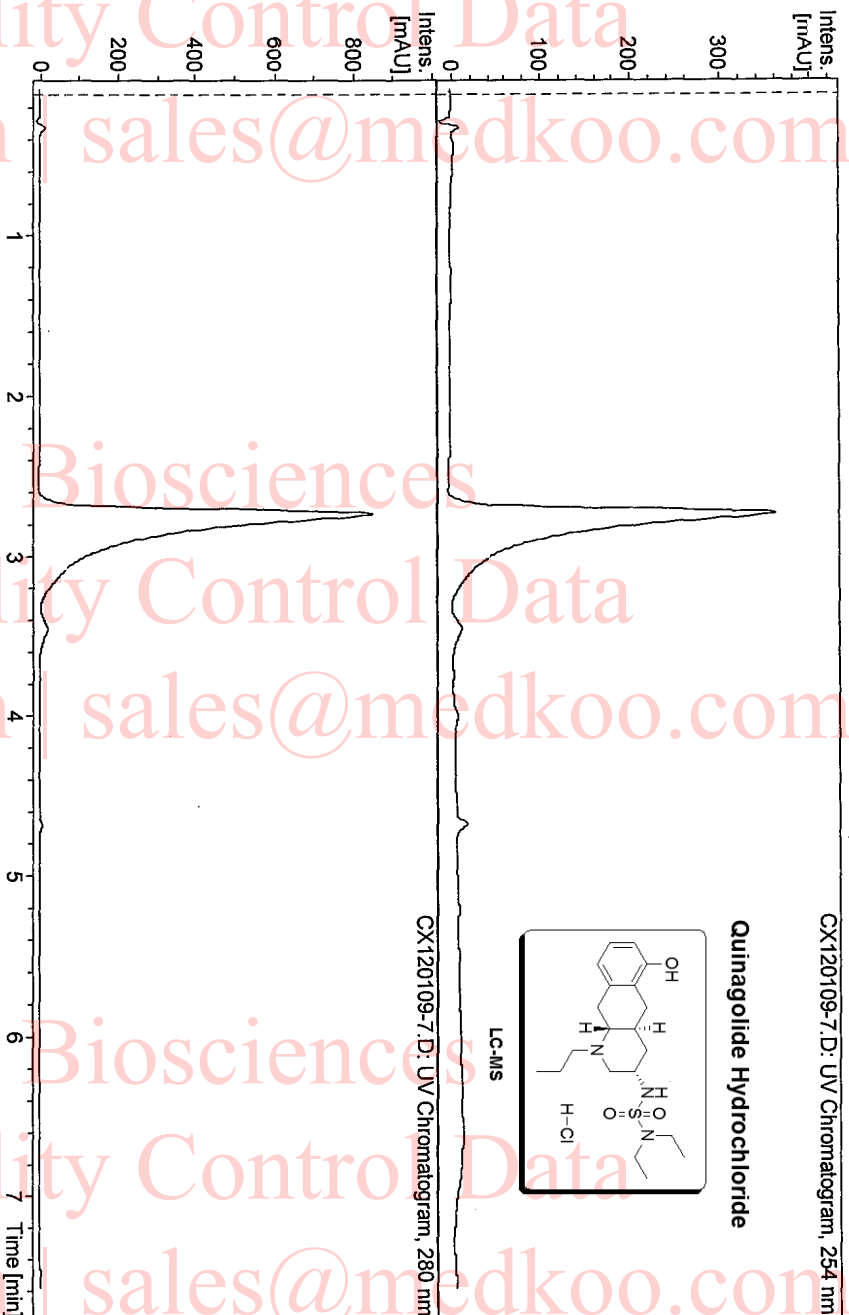


Quinagolide HCl LCMS analysis report

Display Report - All Windows All Analyses

Operator: Administrator Instrument: Agilent 6310 Ion Trap Print Date: 12/7/2009 1:08:01 PM

CX120109-7.D: UV Chromatogram, 254 nm



MedKoo Code#: 202390
Name: Quinagolide hydrochloride
CAS#: 94424-50-7
Lot#XC20091020
Chemical Formula: C₂₀H₃₄ClN₃O₃S
Molecular Weight: 432.02
Quinagolide (free base)
Chemical Formula: C₂₀H₃₃N₃O₃S
Exact Mass: 395.22426,
Molecular Weight: 395.56