

Appendix F.7 EZChrom and Xcalibur Sequence Import

1. LC-MS WORKLIST Sheet

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	Full Worklist			Edit Worklist			Export Sequence						
2	Date	25 Sep 13		Prepared By		Richard Evers							
4	Column Serial No		0583212V			HPLC Method		C:\LCMS Data\Opiate\SPE.met					
5	SPE Serial No		468084-8			MS Method		C:\LCMS Data\Opiates					
6	Eluent A Date		23/4/09			Data Path		C:\LCMS Data\2013\September\LCMS0323\					
7	Eluent B Date		23/4/09										
8	Sequence		LCMS0323										
9	Comments												
12	Sample Number	Morph	Morph Gluc.	Cod/ Cod gluc	6MAM	Street Heroin	Meth / EDDP	Coc metabas	Amfet	Others			
13	1	Cutoff											
14	2	C2											
15	3	C3											
16	4	C4											
17	5	CB-09-734053											
18	6	CB-09-734067											
19	7	CB-09-734072											
20	8	CB-09-734079											
21	9	CB-09-734086											

Titles and format all locked to prevent damage

Serial numbers manually entered by operator

Date defaults to today's date

Method and paths from SEQUENCE tab

2. IMPORT Worksheet

	A	B	C	D	E	F	G	H	I	J	K
1	DATE	ACCN	TEST			ACCN			LCMS0323	LCMS0324	
2	16/10/09	CB-09-734053	LCMS			CB-09-734053				18	
3	19/10/09	CB-09-734067	LCMS			CB-09-734067					
4	19/10/09	CB-09-734072	LCMS			CB-09-734072					
5	19/10/09	CB-09-734079	LCMS			CB-09-734079					
6	19/10/09	CB-09-734086	LCMS			CB-09-734086					
7	19/10/09	CB-09-734107	LCMS			CB-09-734107					
8	19/10/09	CB-09-734131	LCMS			CB-09-734131					
9	20/10/09	CB-09-734149	LCMS			CB-09-734149					
10	20/10/09	CB-09-734168	LCMS			CB-09-734168					
11	20/10/09	CB-09-734203	LCMS			CB-09-734203					
12											

Continue

Cell J1 adds 1 to the sequence number in I1

Cell J2 counts the number of occupied vials in the SEQUENCE worksheet

Columns A – C are imported from Pathnet

Column F contains lab numbers processed on the previous worksheet

Continue button used after worklist editing

3. SEQUENCE Worksheet

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	
1	ASCII Sequence 1																						
2	CREATIONDATE=																						
3	LASTCHANGEDDATE=																						
4	METHODPATH = C:\LCMS Data																						
5	PRINTREPORTS = NO																						
6	DATAPATH = c:\LCMS Data																						
7	PRETREATPATH =																						
8	SUMMARYPATH =																						
9																							
10	DESCRIPTION =																						
11																							
12	RECORD=Cutoff	OpiateSPE Cutoff			0	1	1	1	1	100					0	0	0	0	131072	131072			1
13	RECORD=C2	OpiateSPE C2			0	1	1	1	2	100					0	0	0	0	131072	131072			1
14	RECORD=C3	OpiateSPE C3			0	1	1	1	3	100					0	0	0	0	131072	131072			1
15	RECORD=C4	OpiateSPE C4			0	1	1	1	4	100					0	0	0	0	131072	131072			1
16	RECORD=CB-09-734053	OpiateSPE CB-09-734053			0	1	1	1	5	100					0	0	0	0	131072	131072			1
17	RECORD=CB-09-734067	OpiateSPE CB-09-734067			0	1	1	1	6	100					0	0	0	0	131072	131072			1
18	RECORD=CB-09-734072	OpiateSPE CB-09-734072			0	1	1	1	7	100					0	0	0	0	131072	131072			1
19	RECORD=CB-09-734079	OpiateSPE CB-09-734079			0	1	1	1	8	100					0	0	0	0	131072	131072			1

Used as a template for EZChrom sequences

Column I is the Vial number

Column J is the injection volume

Columns N to S identify controls and calibrators to EZChrom (not used but included for compatibility with other worklist export macros written by the author)

Column V is used to count the number of occupied rows (used in cell J2 on IMPORT sheet (above))

4. XCALIBUR SEQUENCE sheet

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	
1	Bracket Type=4															
2	Sample ID	File Name	Sample Name	Path	Instrument	Process	M	Position	Sample Ty	Calibration	Inj Vol	Level	Sample W	Sample Vc	ISTD Amt	Dil Factor
3	1	Cutoff	Cutoff	C:\LCMS Data\2013\September\LCMS032	C:\LCMS	[	C:\LCMS	[	1	Unknown	100		0	0	0	1
4	2	C2	C2	C:\LCMS Data\2013\September\LCMS032	C:\LCMS	[	C:\LCMS	[	2	Unknown	100		0	0	0	1
5	3	C3	C3	C:\LCMS Data\2013\September\LCMS032	C:\LCMS	[	C:\LCMS	[	3	Unknown	100		0	0	0	1
6	4	C4	C4	C:\LCMS Data\2013\September\LCMS032	C:\LCMS	[	C:\LCMS	[	4	Unknown	100		0	0	0	1
7	5	CB-09-734053	CB-09-734053	C:\LCMS Data\2013\September\LCMS032	C:\LCMS	[	C:\LCMS	[	5	Unknown	100		0	0	0	1
8	6	CB-09-734067	CB-09-734067	C:\LCMS Data\2013\September\LCMS032	C:\LCMS	[	C:\LCMS	[	6	Unknown	100		0	0	0	1
9	7	CB-09-734072	CB-09-734072	C:\LCMS Data\2013\September\LCMS032	C:\LCMS	[	C:\LCMS	[	7	Unknown	100		0	0	0	1
10	7	CB-09-734079	CB-09-734079	C:\LCMS Data\2013\September\LCMS032	C:\LCMS	[	C:\LCMS	[	8	Unknown	100		0	0	0	1
11	7	CB-09-734086	CB-09-734086	C:\LCMS Data\2013\September\LCMS032	C:\LCMS	[	C:\LCMS	[	9	Unknown	100		0	0	0	1

Sheet used as a template for Xcalibur sequences

The Data path (column D) is set to C:\LCMS Data\YEAR\MONTH\WORKLIST NUMBER

5. Printed Worksheet

KINGS COLLEGE HOSPITAL NHS FOUNDATION TRUST CLINICAL BIOCHEMISTRY (TOXICOLOGY) Author: Richard Evers				SF-CB-TOX/LCMSGEN Computer Generated LCMS Assay Problems Issue Date: 9/12/2008 Review Date: 9/12/2009					
Date	25 Sep 13			Prepared By: Richard Evers					
Column Serial No	0583212V			HPLC Method: C:\LCMS Data\opateSPE.met					
SPE Serial No	468084-8			MS Method: C:\LCMS Data\Opates					
Eluent A Date	23/4/09			Data Path: C:\LCMS Data\2013\September\LCMS0323					
Eluent B Date	23/4/09								
Sequence	LCMS0323								
Comments									
Sample Number	Morph	Morph Gluc	Cod/ Cod gluc	SM/AM	Street Heroin	Meth/ EDDP	Coc metals	Amfet	Other
1	Cutoff								
2	C2								
3	C3								
4	C4								
5	CB-09-734053								
6	CB-09-734057								
7	CB-09-734072								
8	CB-09-734079								
9	CB-09-734086								
10	CB-09-734107								
11	CB-09-734131								
12	CB-09-734149								
13	CB-09-734186								
14	CB-09-734203								
15	C4_2								
16	Cutoff_2								
17	Negative_QC								
18	Cutoff_2								
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
Cutoff_2	Signed:			Date:					

CB-09-551509

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Printed as a tool to retrieve samples and record serial numbers, and to record all results on prior to data entry into Pathnet

6. Macro OPEN_WORKLIST

Sub open_worklist()

' open_worklist Macro

' Macro recorded 11/09/2008 by Richard Evers

' Import data from worklist.txt

' GoTo bypass_import

Sheets("Import").Select

Range("A1").Select

Range(Selection, Selection.End(xlDown)).Select

Range(Selection, Selection.End(xlToRight)).Select

Selection.ClearContents

ChDir "G:\CHEM\Toxicology\Charts & Forms\Drugs\ftp"

Workbooks.OpenText Filename:= _

"G:\CHEM\Toxicology\Charts & Forms\Drugs\ftp\worklist.txt", Origin:= _

xlMSDOS, StartRow:=1, DataType:=xlDelimited, TextQualifier:=xlDoubleQuote _

, ConsecutiveDelimiter:=False, Tab:=True, Semicolon:=False, Comma:=True _

, Space:=False, Other:=False, FieldInfo:=Array(Array(1, 1), Array(2, 1), _

Array(3, 1), Array(4, 1)), TrailingMinusNumbers:=True

' Paste into IMPORT sheet

Windows("worklist.txt").Activate

Range(Selection, Selection.End(xlDown)).Select

Range(Selection, Selection.End(xlToRight)).Select

Selection.Copy

Windows("LCMS Sequence import.xls").Activate

Sheets("Import").Select

Range("A1").Select

ActiveSheet.Paste

Range("A1").Select

Selection.Copy

Windows("worklist.txt").Close

Windows("LCMS Sequence import.xls").Activate

' If partial, ask if this is a second part-list

Previous = MsgBox("Do you want to EXCLUDE samples on a previous list?",
vbYesNoCancel, "Exclude Previous")

If Previous = 2 Then GoTo end_routine

If Previous = 7 Then GoTo Create_list

' look up on previous & delete if present

Sheets("Import").Select

Range("g1").Select

previous_samples\$ = ActiveCell.Value

Range("f2").Select

For Previous = 1 To previous_samples\$

accession = ActiveCell.Value

On Error GoTo next_accession

Columns("b:b").Select

Selection.Find(What:=accession, After:=ActiveCell, LookIn:=xlFormulas, _

LookAt:=xlPart, SearchOrder:=xlByRows, SearchDirection:=xlNext, _

MatchCase:=False, SearchFormat:=False).Activate

ActiveCell.Select

Selection.Delete Shift:=xlUp

ActiveCell.Offset(0, -1).Select

Selection.Delete Shift:=xlUp

ActiveCell.Offset(0, 2).Select

Bypass import used
for testing

Clear contents of
IMPORT sheet

Open
WORKLIST.TXT file
from computer
system

Copy data from
WORKLIST.TXT and
paste into IMPORT
sheet, Close
WORKLIST.TXT

Gives the operator
the option to ensure
that samples appear
on only a single
worklist

Examines Lab
Numbers in IMPORT
sheet and deletes if
found in the list of
previously exported
samples

Selection.Delete Shift:=xlUp

next_accession:
Range("f2").Select
ActiveCell.Offset(Previous, 0).Select

Placeholder if data
not deleted (answer
NO to messagebox)

Next

' Paste into "Previous" list

Create_list:
Sheets("Import").Select
Range("b1").Select
 Range("f:f").Clear
 Range(Selection, Selection.End(xlDown)).Select
 Selection.Copy

Clears list of
previously exported
samples and copies
current lab numbers
to list

Range("f1").Select
ActiveSheet.Paste

' select samples for the worklist

Sheets("Import").Select
Range("i1").Select
last_seq = ActiveCell.Value
Range("j1").Select
next_seq = ActiveCell.Value

Identify 1st and last
samples on worklist

' Identify and ask for new worklist number

sequence = InputBox("The last recorded sequence was " + last_seq + ". Please enter
the next sequence number. (Preserve format XXXXnnnn)", "Sequence Number",
next_seq)
If sequence = "" Then GoTo end_routine

Prompt for Worklist
number

Range("i1").Select
ActiveCell.Value = sequence

' paste sequence number

Sheets("LCMS Worklist").Select
Range("D8").Select
ActiveCell.Value = sequence

Paste worklist
number into LCMS
WORKLIST

' paste username

Range("g2").Select
UserName = Application.UserName
ActiveCell.Value = UserName

Save logged in
USER to LCMS
WORKLIST

' clear previous details

Range("b13:b49").Select
 Selection.Clear
Range("b59:B111").Select
 Selection.Clear
Range("b13").Select

Clear lab numbers
from previous LCMS
WORKLIST

'batch = 1
'suffix\$ = batch
' add in QCs

```

Sheets("LCMS Worklist").Select
Range("b13").Select
ActiveCell.Value = "Cutoff"
ActiveCell.Offset(1, 0).Select
ActiveCell.Value = "C2"
ActiveCell.Offset(1, 0).Select
ActiveCell.Value = "C3"
ActiveCell.Offset(1, 0).Select
ActiveCell.Value = "C4"
ActiveCell.Offset(1, 0).Select

```

Add calibrators and controls

```

Sheets("Import").Select
Range("b2").Select

```

' add qc + samples

Sample_Loop:

' Turn off screen updating
Application.ScreenUpdating = False

' Add maximum size worklist
For quality = 4 To 2 Step -1

```

For next_sample = 1 To 10
  'source sheet
  Sheets("Import").Select
  sample_ID = ActiveCell.Value
  ActiveCell.Offset(1, 0).Select
  If sample_ID = "" Then GoTo Exit_Loop      ' If sample number is empty, abort
loop
  'destination
  Sheets("LCMS Worklist").Select
  ActiveCell.Value = sample_ID
  If quality = 2 And next_sample = 9 Then ActiveCell.Offset(9, 0).Select
  ActiveCell.Offset(1, 0).Select

```

Import batch of up to 10 lab numbers from IMPORT into LCMS WORKLIST

Next

```

ActiveCell.Value = quality
temp$ = ActiveCell.Value
ActiveCell.Value = "C" + temp$ + "_2"
ActiveCell.Offset(1, 0).Select
ActiveCell.Value = quality
temp$ = ActiveCell.Value
ActiveCell.Value = "Cutoff" + temp$ + "_2"
ActiveCell.Offset(1, 0).Select

```

Add QC sample before adding next batch of samples

Next

'ActiveCell.Offset(9, 0).Select

```

'source sheet
Sheets("Import").Select
If ActiveCell.Value = "" Then GoTo Exit_Loop
Sheets("LCMS Worklist").Select

```

Repeat above process if >30

GoTo Sample_Loop

samples

Exit_Loop:

Application.ScreenUpdating = True
Sheets("LCMS Worklist").Select

End_of_List:

' Add neg QCs

ActiveCell.Value = "Negative_QC"
ActiveCell.Offset(1, 0).Select
ActiveCell.Value = "Cutoff_2"
ActiveCell.Offset(1, 0).Select

Add Negative QC at
end of batch

'set print area

Sheets("LCMS Worklist").Select
Range("n53").Select
Pages = ActiveCell.Value

Set to print 1 or 2
pages depending on
worklist size

'If Pages = "" Then Range("a1:j52").Select

If Pages = 1 Then ActiveSheet.PageSetup.PrintArea = "\$a\$2:\$m\$57"

If Pages = 0 Then ActiveSheet.PageSetup.PrintArea = "\$a\$2:\$m\$119"

ActiveWorkbook.Save

end_routine:
Sheets("LCMS Worklist").Select

End routine on
LCMS WORKLIST

End Sub

7. Edit_Worklist_1

This macro and Edit_Worklist_2 perform the same function as the Open_Worklist button but insert a pause to allow the worklist to be edited, for example for the addition or removal of lab numbers.

Sub Edit_worklist_1()

' open_worklist Macro

' Macro recorded 11/09/2008 by Richard Evers

,

' Import data from worklist.txt

' GoTo bypass_import

Sheets("Import").Select
Range("A1").Select
Range(Selection, Selection.End(xlDown)).Select
Range(Selection, Selection.End(xlToRight)).Select
Selection.ClearContents

,

ChDir "G:\CHEM\Toxicology\Charts & Forms\Drugs\ftp"

Workbooks.OpenText Filename:= _

"G:\CHEM\Toxicology\Charts & Forms\Drugs\ftp\worklist.txt", Origin:= _
xlMSDOS, StartRow:=1, DataType:=xlDelimited, TextQualifier:=xlDoubleQuote _
, ConsecutiveDelimiter:=False, Tab:=True, Semicolon:=False, Comma:=True _
, Space:=False, Other:=False, FieldInfo:=Array(Array(1, 1), Array(2, 1), _
Array(3, 1), Array(4, 1)), TrailingMinusNumbers:=True

```
' Paste into IMPORT sheet
```

```
Windows("worklist.txt").Activate  
Range(Selection, Selection.End(xlDown)).Select  
Range(Selection, Selection.End(xlToRight)).Select  
Selection.Copy  
Windows("LCMS Sequence import.xls").Activate  
Sheets("Import").Select  
Range("A1").Select  
ActiveSheet.Paste  
Range("A1").Select  
Selection.Copy  
Windows("worklist.txt").Close  
Windows("LCMS Sequence import.xls").Activate
```

```
xyz = MsgBox("Edit the lab numbers in column B and then select 'Continue'. Do not add in controls.",  
vbOKOnly, "Edit Worklist")
```

```
End Sub
```

8. EDIT_WORKLIST_2

Continues worklist processing after lab numbers have been edited.

```
Sub edit_worklist_2()
```

```
' If partial, ask if this is a second part-list
```

```
Previous = MsgBox("Do you want to EXCLUDE samples on a previous list?", vbYesNoCancel,  
"Exclude Previous")
```

```
If Previous = 2 Then GoTo end_routine
```

```
If Previous = 7 Then GoTo Create_list
```

```
' look up on previous & delete if present
```

```
Sheets("Import").Select  
Range("g1").Select  
previous_samples$ = ActiveCell.Value  
Range("f2").Select
```

```
For Previous = 1 To previous_samples$
```

```
accession = ActiveCell.Value
```

```
On Error GoTo next_accession
```

```
Columns("b:b").Select
```

```
Selection.Find(What:=accession, After:=ActiveCell, LookIn:=xlFormulas, _
```

```
LookAt:=xlPart, SearchOrder:=xlByRows, SearchDirection:=xlNext, _
```

```
MatchCase:=False, SearchFormat:=False).Activate
```

```
ActiveCell.Select
```

```
Selection.Delete Shift:=xlUp
```

```
ActiveCell.Offset(0, -1).Select
```

```
Selection.Delete Shift:=xlUp
```

```
ActiveCell.Offset(0, 2).Select
```

```
Selection.Delete Shift:=xlUp
```

```
next_accession:
```

```
Range("f2").Select
```

```
ActiveCell.Offset(Previous, 0).Select
```

```
Next
```

```
' New worklist size
```



```
' Paste into "Previous" list
```

```
Create_list:  
Sheets("Import").Select  
Range("b1").Select  
    Range("f:f").Clear  
    Range(Selection, Selection.End(xlDown)).Select  
    Selection.Copy
```

```
Range("f1").Select  
ActiveSheet.Paste
```

```
' select samples for the worklist
```

```
Sheets("Import").Select  
Range("i1").Select  
last_seq = ActiveCell.Value  
Range("j1").Select  
next_seq = ActiveCell.Value
```

```
' Identify and ask for new worklist number
```

```
sequence = InputBox("The last recorded sequence was " + last_seq + ". Please enter the next  
sequence number. (Preserve format XXXXnnnn)", "Sequence Number", next_seq)  
If sequence = "" Then GoTo end_routine
```

```
Range("i1").Select  
ActiveCell.Value = sequence
```

```
' paste sequence number
```

```
Sheets("LCMS Worklist").Select  
Range("D8").Select  
ActiveCell.Value = sequence
```

```
' paste username
```

```
Range("g2").Select  
UserName = Application.UserName  
ActiveCell.Value = UserName
```

```
' clear previous details
```

```
Range("b15:b49").Select  
    Selection.Clear  
Range("b59:B111").Select  
    Selection.Clear  
Range("b15").Select
```

```
'batch = 1
```

```
'suffix$ = batch
```

```
' add in QCs
```

```
    Sheets("LCMS Worklist").Select  
    Range("b15").Select  
    ActiveCell.Value = "Cutoff"  
    ActiveCell.Offset(1, 0).Select  
    ActiveCell.Value = "C2"  
    ActiveCell.Offset(1, 0).Select  
    ActiveCell.Value = "C3"  
    ActiveCell.Offset(1, 0).Select  
    ActiveCell.Value = "C4"  
    ActiveCell.Offset(1, 0).Select
```

```
Sheets("Import").Select  
Range("b2").Select
```

```
' add qc + samples
```

```
Sample_Loop:
```

```
' Turn off screen updating
```

```
Application.ScreenUpdating = False
```

```
' Add maximum size worklist
```

```
For quality = 2 To 4
```

```
For next_sample = 1 To 10
```

```
'source sheet
```

```
Sheets("Import").Select
```

```
sample_ID = ActiveCell.Value
```

```
ActiveCell.Offset(1, 0).Select
```

```
If sample_ID = "" Then GoTo Exit_Loop ' If sample number is empty, abort loop
```

```
'destination
```

```
Sheets("LCMS Worklist").Select
```

```
ActiveCell.Value = sample_ID
```

```
If quality = 4 And next_sample = 7 Then ActiveCell.Offset(9, 0).Select
```

```
ActiveCell.Offset(1, 0).Select
```

```
Next
```

```
ActiveCell.Value = quality
```

```
temp$ = ActiveCell.Value
```

```
ActiveCell.Value = "C" + temp$ + "_2"
```

```
ActiveCell.Offset(1, 0).Select
```

```
ActiveCell.Value = quality
```

```
temp$ = ActiveCell.Value
```

```
ActiveCell.Value = "Cutoff" + temp$ + "_2"
```

```
ActiveCell.Offset(1, 0).Select
```

```
Next
```

```
'ActiveCell.Offset(9, 0).Select
```

```
'ActiveCell.Offset(0, 1).Select
```

```
'source sheet
```

```
Sheets("Import").Select
```

```
If ActiveCell.Value = "" Then GoTo Exit_Loop
```

```
Sheets("LCMS Worklist").Select
```

```
GoTo Sample_Loop
```

```
Exit_Loop:
```

```
Application.ScreenUpdating = True
```

```
Sheets("LCMS Worklist").Select
```

```
End_of_List:
```

```
' Add neg QCs
```

```
ActiveCell.Value = "QC_Neg"
```

```
ActiveCell.Offset(1, 0).Select
```

```
ActiveCell.Value = "Cutoff_2"
```

```
ActiveCell.Offset(1, 0).Select
```

```
'set print area
```

```
Sheets("LCMS Worklist").Select
```

```
Range("n53").Select
```

```
Pages = ActiveCell.Value
```

```
'If Pages = "" Then Range("a1:j52").Select
```

```
If Pages = 1 Then ActiveSheet.PageSetup.PrintArea = "$a$2:$m$57"  
If Pages = 0 Then ActiveSheet.PageSetup.PrintArea = "$a$2:$m$119"
```

```
ActiveWorkbook.Save
```

```
end_routine:  
Sheets("LCMS Worklist").Select
```

```
End Sub
```

9. EXPORT MACRO

Saves the SEQUENCE sheet as .CSV files for EZChrom and XCalibur and deletes surplus data

```
Sub export()
```

```
vial = InputBox("What is the first vial of the sequence?", "Start Vial", 1)  
Sheets("Xcalibur Sequence").Select  
Range("a3").Select  
ActiveCell = vial  
Sheets("Import").Select  
Range("j2").Select  
list_size = ActiveCell.Value  
'list_size = list_size  
Range("i1").Select  
worklist_name$ = ActiveCell.Value
```

Determines first vial to be used and pastes into Xcalibur sequence

Identifies number of samples on list

Identifies worklist number

```
Sheets("Sequence").Select  
Sheets("Sequence").Copy
```

Selects EZChrom Sequence Export

```
Cells.Select  
Selection.Copy  
Selection.PasteSpecial Paste:=xlPasteValues, Operation:=xlNone,  
SkipBlanks _  
:=False, Transpose:=False
```

```
Columns("ac").Select  
Selection.Delete Shift:=xlToLeft  
Columns("N:R").Select  
Selection.Delete Shift:=xlToLeft  
Columns("d").Select  
Selection.Delete Shift:=xlToLeft
```

Deletes surplus data used for formatting of QCs and identifying worklist size

```
Range("a12").Select  
ActiveCell.Offset(list_size, 0).Select  
Range(Selection, Selection.End(xlDown)).Select  
Range(Selection, Selection.Offset(0, 20)).Select
```

Select extra blank lines for deletion

```
Selection.Delete Shift:=xlUp  
Range("a12").Select  
ActiveCell.Offset(list_size, 0).Select
```

```
Range(Selection, Selection.End(xlToRight)).Select  
Selection.Delete Shift:=xlUp
```

Range("a1").Select
file_name\$ = "g:\CHEM\Toxicology\Charts & Forms\Drugs\FTP" + worklist_name\$ + ".csv" + Name .CSV file with
worklist number and
save and close

ActiveWorkbook.SaveAs Filename:= _
file_name\$, FileFormat:= _
xlCSV, CreateBackup:=False

ActiveWorkbook.Close
Windows("LCMS Sequence import.xls").Activate
Sheets("LCMS Worklist").Select

' XCalibur sequence export

Sheets("Xcalibur Sequence").Select
Sheets("Xcalibur Sequence").Copy
Select XCalibur
sequence sheet

Cells.Select
Selection.Copy
Selection.PasteSpecial Paste:=xlPasteValues, Operation:=xlNone,
SkipBlanks _
:=False, Transpose:=False

Range("a3").Select
ActiveCell.Offset(list_size, 0).Select
Range(Selection, Selection.End(xlDown)).Select
Range(Selection, Selection.Offset(0, 20)).Select
Selection.Delete Shift:=xlUp
Delete surplus data
lines

Range("a1").Select
file_name\$ = "g:\CHEM\Toxicology\Charts & Forms\Drugs\FTP\Xcal_" + worklist_name\$ + ".csv" + Save as Xcalibur
sequence file

ActiveWorkbook.SaveAs Filename:= _
file_name\$, FileFormat:= _
xlCSV, CreateBackup:=False

ActiveWorkbook.Close
Windows("LCMS Sequence import.xls").Activate
Sheets("LCMS Worklist").Select
End Sub