	Method
1	Grouping Initialise ---------- StarLet HHS TipCounters
2	Grouping Firmware command for 50 µL Tip eject
5	IsSimulatorMode of HSLML_STARLib _blnSimulation = HSLML_STAR::IsSimulatorMode(ML_STAR)
6	TrcTrace of HSLTrcLib TrcTrace("_blnSimulation = ", _blnSimulation)
7	Initialize (Single Step) on ML_STAR Always initialize: Off 3 return value(s) .
8	Comment <Set method variables>
9	Assignment '_strTipCounterNTR50' = '"50ulTip"'
10	Grouping
11	Comment <Browse to worklist>
12	Custom Dialog from Custom Dialog Steps Dialog Title: "Dialog"
13	TrcTrace of HSLTrcLib TrcTrace("Worklist file:", strWorklistpath)
14	StrConcat4 of HSLStrLib strWorksheet = StrConcat4("Plate", intPlateSelection, "$", "")
15	TrcTrace of HSLTrcLib TrcTrace("Worksheet:", strWorksheet)
16	Comment <Open Excel File for reading>
17	Grouping Get data from Excel file into arrays
18	File: Open File handle 'file1' (File name: 'strWorklistpath', Table name: 'strWorksheet'), Mode: 'Append'. Columns: _sourcewell = "SourceWell" (String, 255) _sourceplate = "SourcePlate" (String, 255) _destinationwell = "DestinationWell" (String, 255)
19	Comment <Declare arrays>
20	Array: Declare / Set Size Set array 'arrSourceWell' to empty size.
21	Array: Declare / Set Size Set array 'arrSourcePlate' to empty size.
22	Array: Declare / Set Size Set array 'arrDestinationWell' to empty size.
23	Comment <Fill arrays>

	Method
24	Loop over following files: - file1 'loopCounter1' used as loop counter variable
25	File: Read Read from file 'file1'
26	Array: Set At Set '_sourceplate' within the array 'arrSourcePlate', add to the end.
27	Array: Set At Set '_sourcewell' within the array 'arrSourceWell', add to the end.
28	Array: Set At Set '_destinationwell' within the array 'arrDestinationWell', add to the end.
29	End Loop
30	Comment <Close file>
31	File: Close Close file 'file1'
32	Grouping
33	Comment <Trace out worklist>
34	TraceArray_3 of HSLUtilLib2 Util2::Debug::TraceArray_3("Worklist for cherry-picking (Souce Plate,Source Well, Destination Well) ", arrSourcePlate, arrSourceWell, arrDestinationWell)
35	Comment <Get size of array>
36	Grouping Create Sequences
37	Array: Get Size '_intArrSize' = size of array 'arrDestinationWell'.
38	Assignment with Calculation '_tipsrequired' = '_intArrSize' + '0'
39	Loop '_intArrSize' times 'loopCounter2' used as loop counter variable
40	Array: Get At '_sourceplate' = element from array 'arrSourcePlate' at the index [loopCounter2].
41	Array: Get At '_sourcewell' = element from array 'arrSourceWell' at the index [loopCounter2].
42	Array: Get At '_destinationwell' = element from array 'arrDestinationWell' at the index [loopCounter2].
43	SeqAdd of HSLSeqLib SeqAdd(seqSource, _sourceplate, _sourcewell)
44	SeqAdd of HSLSeqLib SeqAdd(seqDestination, "PCR96Destination", _destinationwell)
45	End Loop
46	Grouping
47	Grouping Load instructions

	Method
48	load_instructions_tips of load_instructionsv2 LOAD_INSTRUCTIONSV2::load_instructions_tips(ML_STAR, ML_STAR.MIStar50ulTipWithFilter, 50, intArrSize, "Tip50Counter", 1)
49	load_instructions of load_instructionsv2 LOAD_INSTRUCTIONSV2::load_instructions(ML_STAR, seqSource, "Load source DNA plates in flashing position(s).\n\nThe Nimbus extraction plates should be sitting on the carrier with blue labels.")
50	load_instructions of load_instructionsv2 LOAD_INSTRUCTIONSV2::load_instructions(ML_STAR, ML_STAR.PCR96Destination, "Load EMPTY FrameStar plate into flashing position.")
51	Grouping
52	SeqResetSequenceIndexes of HSLSeqLib SeqResetSequenceIndexes(seqDestination)
53	SeqResetSequenceIndexes of HSLSeqLib SeqResetSequenceIndexes(seqSource)
54	Loop over following sequences: - seqDestination (Controlling), Adjust for '1' times consumption - seqSource, Adjust for '1' times consumption 'loopCounter4' used as loop counter variable
55	Sequence: Get Current Position 'inLoopCount' = current position of sequence 'seqDestination'
56	Create_Channel_Pattern_1ml of Create_Channel_Pattern_Controlling_Seq CREATE_CHANNEL_PATTERN_CONTROLLING_SEQ::Create_Channel_Pattern_1ml(ML_STAR, seqDestination, strChannelPattern)
57	1000ul Channel Aspirate on ML_STAR Sequence: seqSource, Volume [ul]: 12, Liquid class: "Tip_50ulFilter_Water_DispenseSurface_Empty" 0 return value(s) .
58	1000ul Channel Dispense on ML_STAR Sequence: seqDestination, Volume [ul]: Remaining volume inclusive blowout air, Liquid class: As in first aspiration of cycle 0 return value(s) .
59	End Loop - Reset sequence after loop: seqDestination, seqSource
60	Custom Dialog from Custom Dialog Steps Dialog Title: "Dialog"
61	