































1		Grouping Name Definition
2		Assignment 'l_strStockSolutionName' = "Stock Solution"
3		Assignment 'l_strDiluentName' = "Diluent"
4		Grouping
5		Grouping Unit Definitions
6		Assignment 'l_strUnitOfConcentration' = "µM"
7		Assignment 'l_strVolumeUnit' = "µL"
8		Grouping
9		Assignment 'l_fttVolumeMaxOfLabware' = '1500'
10		Grouping Values Definition
11		Assignment 'l_fttConcentrationOfStockSolution' = '1000'
12		Assignment 'l_fttSerialDilutionInitalConcentration' = "500"
13		Assignment 't_fttDilutionFactor' = '2'
14		Assignment 'l_fttFinalDilutionVolumeNeeded' = '500'
15		Assignment 'l_intNumberOfDilutions' = '10'
16		Grouping
17		User Input Dialog Title: "Needed information", Return Value: ", Buttons: 'Only 'OK' button', Default: 'OK', Sound: ", Timeout: 'infinite' Input: l_strStockSolutionName ("Stock Solution: ", String, "") l_strDiluentName ("Diluent: ", String, "") l_strUnitOfConcentration ("Unit of Concentration: ", String, "") l_strVolumeUnit ("Unit of Volume: ", String, "") l_fttVolumeMaxOfLabware ("Max Volume of Labware: ", Float, 1) l_fttConcentrationOfStockSolution ("Initial Stock Concentration: ", Float, 1) l_fttSerialDilutionInitalConcentration ("First Dilution Concentration: ", Float, 1) t_fttDilutionFactor ("Dilution Factor: ", Float, 1) t_fttFinalDilutionVolumeNeeded ("Final Volume Needed: ", Float, 1) l_intNumberOfDilutions ("Number of Dilutions: ", Integer, 4, 4, 24)
18		Grouping Math Calculations
19		Assignment with Calculation 't_fttVolumeToTransfer' = 't_fttFinalDilutionVolumeNeeded' / 't_fttDilutionFactor' result as floating point number
20		Assignment with Calculation 't_fttMaximumVolume' = 'l_fttFinalDilutionVolumeNeeded' + 't_fttVolumeToTransfer'
21		Assignment with Calculation 't_fttVolumeOfDiluentToAddToWells' = 'l_fttFinalDilutionVolumeNeeded' - 't_fttVolumeToTransfer'
22		Assignment with Calculation 't_fttNumeratorOfInitialVolumeTransfer' = 't_fttMaximumVolume' * 'l_fttSerialDilutionInitalConcentration'
23		Assignment with Calculation 't_fttStockToFirstDilutionTransferVolume' = 't_fttNumeratorOfInitialVolumeTransfer' / 'l_fttConcentrationOfStockSolution' result as floating point number
24		Assignment with Calculation 't_fttDiluentToFirstDilutionVolume' = 'l_fttFinalDilutionVolumeNeeded' - 't_fttStockToFirstDilutionTransferVolume'
25		Grouping
26		Assignment 't_fttMaximumVolume' = '1000'
27		If, Else (t_fttMaximumVolume is greater than l_fttVolumeMaxOfLabware)
28		User Output Dialog Title: "Error", Return Value: ", Buttons: 'Only 'OK' button', Default: 'OK', Icons: 'Display information message icon', Sound: ", Timeout: 'infinite' Output: "ERROR: VOLUME EXCEEDS LABWARE MAX VOLUME"
29		Else
30		User Output Dialog Title: "Result of Calculations", Return Value: ", Buttons: 'Only 'OK' button', Default: 'OK', Icons: 'Display information message icon', Sound: ", Timeout: 'infinite' Output: "Move ", t_fttStockToFirstDilutionTransferVolume, l_strVolumeUnit, " of ", l_strStockSolutionName, " and ", t_fttDiluentToFirstDilutionVolume, l_strVolumeUnit, " of ", l_strDiluentName, " to first well.", "", <New Line>, "", <New Line>, l_intNumberOfDilutions, " Dilutions will be made by first adding ", t_fttVolumeOfDiluentToAddToWells, l_strVolumeUnit, " of ", l_strDiluentName, " to each dilution except for the intial dilution which should already be made. Then from the first dilution to the last dilution move ", t_fttVolumeToTransfer, l_strVolumeUnit, " to each next dilution changing tis every time, and making sure that the solution is mixed before moving the aspirated liquid to the next
31		End If
32		