

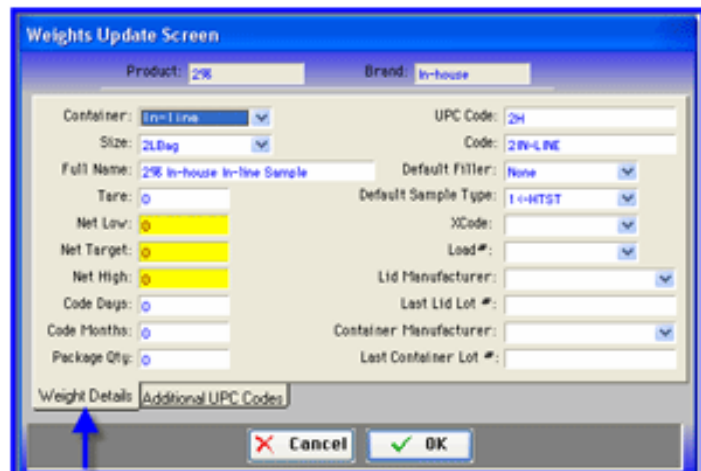
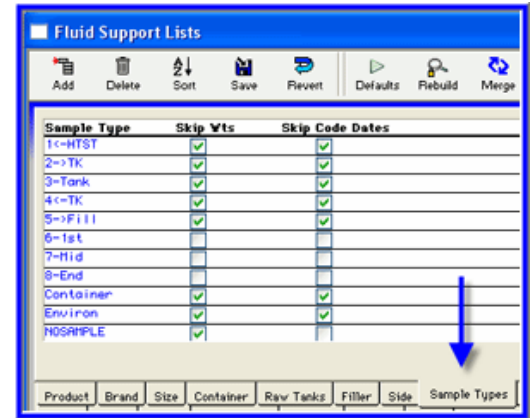


December 2008

Fluid Program – Setting Up In-line Samples

Taking aseptic in-line samples can be very helpful in isolating quality issues to a specific area of the process. The in-line sample data can be entered into QA Studio and the results can be easily graphed or reported to help identify the specific areas that need immediate attention.

Set up the different in-line sample types: Go to the Fluid Main Menu > Fluid Support Lists > Sample Types tab. Add the different sample types taken at your facility. Depending on what samples are taken, the samples can be set up identifying the sample sequence in the process. For example; if the first sample taken is off the HTST discharge, it can be identified as "1←HTST". If the next sample taken is a pasteurized tank sample either going into the tank or at the tank door; that sample can be named "2-Tank" or "2 →TK" and so on for the next step in the process. Placing the number of the sequence of the sample flow will easily allow you to see graphs and reports sorted by the sequence of the sample type, making the results easier to interpret. The sample sequence can also be identified alphabetically instead of numerically if desired. For example: A←HTST, B→TK, C-TK, etc.



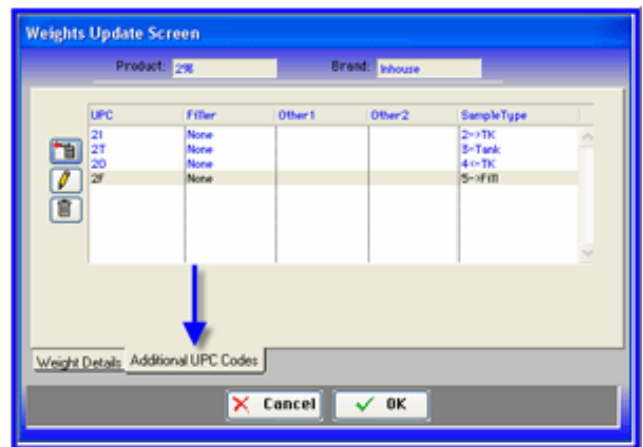
Set up the product specifications: Go to the Fluid Main Menu > Fluid Product Specifications Window and Add the product (for example: 2%) and set up the brand (for example: In-house).

Set up a data entry short cut: While in the Fluid Product Specification > go to the Weight Details tab and enter the necessary details. In the UPC field enter in a code that can be used as a data entry shortcut when adding the in-line sample. In this example 2H was entered into the UPC code field. The container (In-line), size (2L Bag), filler (none) and sample type (1 ←HTST) are all set up to correspond with an entered UPC code of 2H (shortcut for 2% HTST sample).

Set up the remainder of the in-house samples for a particular product: In this example, since each step in the process for the 2% in-line samples will all have the same product and brand but different sample types, you can add Additional UPC codes for data entry shortcuts for the remainder of the 2% in-line samples.

Go to Additional UPC Codes tab and enter the details for the remainder of the sample types. In this example, an Additional UPC code of 2I (for 2% Into Tank), 2O (for 2% Out of Tank), and 2T (for 2% Tank sample) were added. *These are only examples; each facility can set up their own shortcut entry UPC codes.*

Note: If you would like to print out a report with the shortcuts > Fluid Product Specifications window > Spec Reports (menu at bottom of window) > Barcode Report.





Fluid Program – Setting Up In-line Samples (continued)

Once data entry shortcuts are set up in QA Studio; when in the Fluid main window click ADD and enter the shortcut key in the UPC Code field. In this example, 2H was entered into the UPC field; the Product, Brand, Container, Size and Sample Type were automatically filled in corresponding to what was entered in the Fluid Product Specification Weights window. - *Benefit to QA Studio Users: Fast, accurate, complete data entry for in-line samples.*

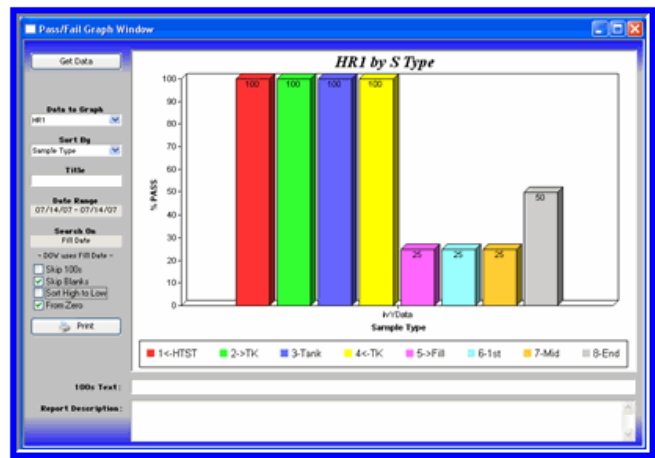
ID:	UPC CODE:	Product:	Brand:	Container:	Size:	Sample Type:
	2H	2%	In-house	In-line	2L Bag	1<-HTST

There are several reports and graphs that can help you interpret the in-line sample results.

To the right is an example of a graph. Find the data in the Fluid main window first. Then go to Fluid Graphs > Pass/Fail #2 (the newest graphs added to QA Studio). Choose the test and choose the Sort by: Sample Type.

Uncheck the "Sort High to Low". This places the sample types in the sequential order of the sample flow instead of from highest %Pass to the lowest % Pass. This will help determine at what step of the process a quality issue first occurred.

Below is an example of an informative report that can be found in QA Studio. This report sorts the data by the pasteurized tanks and the Sample Type can be seen in sequential order.



QAStudio		FLUID PRODUCT REPORT										07/14/07 00:00		Page: 1							
Printed Sat, Jan 3, 2009 @ 15:45		HR1 / HR2 Report by Tank										thru		07/14/07 23:59							
From List																					
Fill	Code	Sample		Gross		STRESS		7D													
Date	Time	Date	Filler:	Type	Label	Size	Product	Tank	Op	Temp	Weight	Diff	%BF	%TS	COLI	HR1	SPC	HR2	EOC		
07/14	00:01			1<-HTST	In-house	2L Bag	Homo								<1	PURPLE	<100	60W			
07/14	00:15			2->TK	In-house	2L Bag	Homo								<1	PURPLE	<100	60W			
07/14	00:16			3-Tank	In-house	2L Bag	Homo			38.0			3.25	11.91	<1	PURPLE	<100	60W			
07/14	00:20		F1	4<-TK	In-house	2L Bag	Homo								<1	PURPLE	<100	60W			
07/14	00:40		F1	5->Fill	In-house	2L Bag	Homo								1	PINK	20,000	48P			
07/14	01:00	07/30	F1	6-1st	MilkyWay	GAL	Homo	A	01	ABC	38.2	3,978.0	1.0	3.25	11.91	<1	WHITE	21,000	48P BITTER		
07/14	02:00	07/30	F1	7-Mid	MilkyWay	GAL	Homo	A	01	ABC	38.3	3,980.0	3.0	3.25	11.90	<1	PINK	15,000	60P SLBITTER		
07/14	03:00	07/30	F1	8-End	MilkyWay	GAL	Homo	A	01	ABC	38.4	3,979.0	2.0	3.25	11.91	<1	PINK	9,000	60P FAIR		
8 records for TANK 01:													4/4	4/4	7/8	4/8	5/8	1/3			
Percentage Good:													100.0%	100.0%	87.5%	50.0%	62.5%	50.0%	33.3%		
07/14	00:01			1<-HTST	In-house	2L Bag	FatFree								<1	PURPLE	<100	60W			
07/14	08:20			2->TK	In-house	2L Bag	FatFree								<1	PURPLE	<100	60W			
07/14	08:21			3-Tank	In-house	2L Bag	FatFree			42.0			0.11	8.92	<1	PURPLE	<100	60W			
07/14	08:40		F5	4<-TK	In-house	2L Bag	FatFree								<1	PURPLE	<100	60W			
07/14	08:50		F5	5->Fill	In-house	2L Bag	FatFree								2	WHITE	25,000	48P			
07/14	09:00	07/30	F5	6-1st	MilkyWay	HG	FatFree	B	02	AAS	43.0	2,011.0	-4.0	0.10	8.93	<1	PINK	28,000	36P BITTER		
07/14	10:00	07/30	F5	7-Mid	MilkyWay	HG	FatFree	B	02	AAS	43.3	2,010.0	-5.0	0.11	8.92	<1	PINK	9,000	48P FAIR		
07/14	11:59	07/30	F5	8-End	MilkyWay	HG	FatFree	B	02	AAS	43.2	2,011.0	-4.0	0.12	8.92	<1	PINK	4,000	60P GOOD		
8 records for TANK 02:													4/4	4/4	7/8	4/8	6/8	4/8	2/3		
Percentage Good:													100.0%	100.0%	87.5%	50.0%	75.0%	50.0%	66.7%		