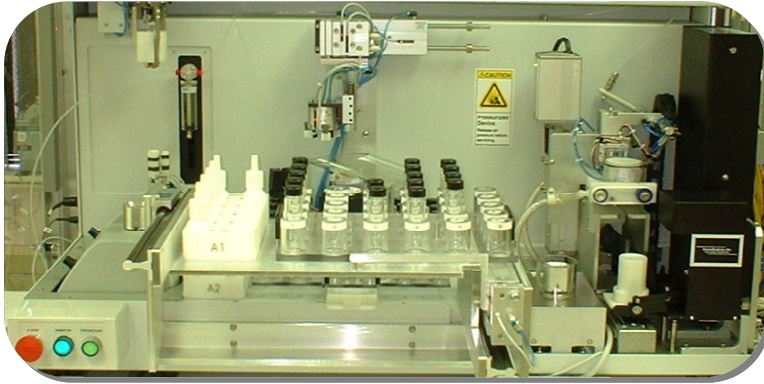

InnovaSystems, Inc.

Technology Engineering



- **Automated Nasal Spray Products Testing**
- NSP DWC (Dose Weight with Collection) - Automates FDA Recommended Tests:
 - Dose (Shot) Weights
 - Priming/Repriming
 - Tail-Off
 - Collection for Content Uniformity
- Increases Throughput and Productivity
- Improves the Accuracy and Reproducibility of Results
- Insures Reproducible Actuation Force

NSP DWC - Automated Actuations,
Weights, Collections

NSP DWC...

Automates the routine actuation (waste sprays), weighing of the nasal spray product, and preparation of the sample for further analysis. Processes up to 20 sample bottles, unattended, and collects up to 60 vials.

Transports bottles, with the XYZ gantry, to perform waste sprays, weighing the nasal spray bottle, collection of the spray into vials, dilution of the spray in the vial, weighing to confirm spray and solvent additions, capping and mixing the diluted spray.

Supports 21 CFR Part 11 Compliance and simplifies validation with the IQ/OQ documentation.

Includes

- Dose Weight Station with Transport, Gripper and Controller
- MightyRunt Actuator with Collection
- Analytical Balance
- (2) Vortex Mixers
- Liquid Dispenser
- Vial Capper/Uncapper
- Bottle and Vial Trays
- Enclosure
- Validation Protocols, IQ/OQ
- NSP DWC Application Software

CONTROL PARAMETERS

Product Editor

Prod file: caplest Jun-21-2005
 Last edited: nbarrett
 Approved: nbarrett Jun-21-2005

Comment:

NSC type:

15ml-V
 17ml-FLAT

Actuation force (Kg): 5.0 Min travel distance (mm): 0.0
 Time to force (sec): 0.0 Max travel time (sec): 0.0
 Hold time (sec): 0.0 Min spray weight (mg): 0.0
 Release time (sec): 0.0 Max spray weight (mg): 999.9
 Spray delay (sec): 1
 Solvent volume (ml): 0.0 Aspirate speed (sec/25ml): 0
 SCV vortexing time (sec): 0 Dispense speed (sec/25ml): 0

RUN SCREEN

NSP - Dose Weight and Collection Station

Analyst name: nbarrett NSC type: 17ml-FLAT
 Run Id: Prod file: caplest
 Comment:

Setup

P.	NSC Id	Lot Num	Comment	Method
1	2	2	2	caplest
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

Status

Step	Shake	Weigh	Delta	Waste	Collect	Wam	Dab	Count
18	0			0	1	1		19
19	0			0	1	1		19
20	0			0	1			
21	0			0	1			

Specifications

Space Requirements	Height	Width	Depth
Station	84in	72in	45in
	Power	Air	Vacuum
Utilities	110/220 VAC 50/60 Hz	100-120 PSI	5-25" Hg

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