

Team #:	P16104	Team Name:	Microfluidic Spectroscopy in CubeSats
Date:	2/3/2016 19:15	Document Owner:	Mallory Rauch
Revision #:	1		

Subsystem/ Function/ Feature Name:	Protein Mixing Testing
Date of Test:	2/9/2016
Performed By:	___Andrea Mazzocchi, Matthew Glazer, James Lewis, Darin Berrigan, August Allen, Mallory Rauch___
Tested By:	

Concluded Condition of meeting Engineering Specification	N/A
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I. TESTING SPECIFICATION

Specification Number	Importance	Source	Function	Specification (Metric)	Unit of Measure	Max Value	Min Value	Comments/Stat
ER 5, ER 6	9	PRP	System	Volume and	uL and mg	75 and 3	125 and 1	

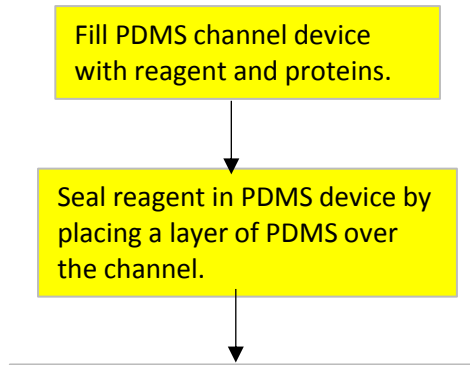
II. EQUIPMENT REQUIRED

Specification Number	Equipment or Instrumentation required
ER 5, ER 6	Power Source, Solenoids, PDMS Device, Protein, Reagent, Device Holder, Pipettes

III. DATA COLLECTION STRATEGY

Specification Number	Data acquisition strategy
ER 5, ER 6	The purpose of this test is to ensure that the proteins being used in the assay are adequately mixed. The ability of the solenoids in conjunction with the PDMS device to mix the protein with the reagent will be tested.

III. TESTING FLOWCHART



Orient device in device holder so that solenoids are positioned over the outer wells.



Start solenoid program to observe if alternating solenoid throws mixes protein and reagent so that end suspension matches color of vortexed proteins.

IV. RAW DATA ACQUISITION

V. RESULTS

VI. CONCLUSION