				1		T		7			
Customer							Date	9/16/2005			
							rh	55%			
	_			Bulk	.53 - 6.6	Particle	5 -10				
Material	Sugar substitute #2			Density	gm/cc	size	micron				
Desired Sample size	1 mg. +/-1.0% Repeatability			Pipette Size		Filter Cup porosity	5 micron				
Desired accuracy											
	Sample weight		Control unit	settinas							
Micrometer			Vacuum	Air			······	1			
setting	0.05	mg	(in hg)	(psi)							
	<u> </u>	1,000						-			
	sharp	1.000	5	8		-	<u> </u>	4			
	edge	0.987 0.978		•				-			
	scraper	1.092			ļ	ļ		4			
Material is	+	1.004		*				-			
hydroscopic,	-	1.091				SAMI	PLE WEIGHT	l			
bulk density		1.000	1 1200								
changes over		1.068	1.1200 1.1000 1.0800		*						
time.	1	1.080	1.0600								
		1.000	mg 1.0200	mg 1000 1000 0,900 0,900 0,900 0,900							-
		1.087	0.9600 0.9600 0.9400								
		1.012	0.9200	1	-				-		-
		1.091		1 2 3	3 4 5	6 7	8 9	10 11 12	2 13 14	15 16	17
		1.000			/			3			
		1.000									
		1.000	Large Tap De	ensity variation	caused by	pipette pac	king due to	small amour	nt of sample	e powder	
	. ↓	1.009									
	ļ				ļ	ļ		4			
	ļ	1.029 Av		<u> </u>		ļ		4			
		1.029 Mean				ļ	•				
		0.043 Std De						4			
	<u> </u>	1.092 Range	н					4			
	 	0.978 low 10.440 %		 		-	 	4			
		10.440 %					·	-			
						+		4			
	 				<u> </u>	†	 	1			
Notes:	+			 	 	·	 	4			

- 1.0 Resolution limited to Analytical balance scale accurate to 4 places to right of decimal.
- 2.0 Powder Condition: Fine white powder, some granular clumps. Somewhat hydroscopic causing a weight gain over time after opening and distributing sample.
- 2.1 Clumps, as a significant of the sample volume, cause the sample weight to vary more than if the powder particulate size were more uniform. 3.0 Samples tended to pack using the scraper plate. Change of tap density. Used sharp edge of scraper/leveling plate.

- 3.1 Would not be an issue for sample weights >5 mg.
 3.2 Suggest sharp edge or wire to level tip end for small samples.
- 4.0 Cycle time: Sample to sample 4 5 seconds after initial calibration.