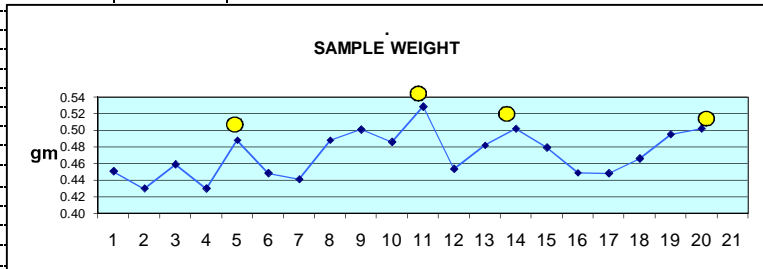


Material	Amino Acid Fmoc-Phe-OH Na-9-Fluorenylmethoxycarbonyl-L-phenylalanine		Est. Bulk Density	.7 gm/cc	Date	11/3/2005
Desired Sample size	0.45 gm +/- .02gm	Particle size	UNK	rh	40%	
Desired accuracy	+/-0.02 gm	Pipette Size	.375 dia.	Filter mesh	5 micron SS	

	Sample weight		Control unit settings	
	Micrometer setting	gm	Vacuum (in Hg)	Air (PSI)
Tap density changes due to small amount of material supplied. Had to replenish supply boat frequently from weigh boat to normalize tap density.	0.9	0.4508	15	6
		0.4300		
		0.4588		
		0.4298	Pipette did fully aspirate powder	
		0.4880	Sample packed.	
		0.4483		
		0.4410		
		0.4880	Sample packed.	
		0.5010	Empty supply boat	
		0.4860		
		0.5285		
		0.4534		
		0.4818	Sample packed.	
		0.5019	Empty supply boat	
		0.4794		
		0.4486		
		0.4481		
		0.4660		
		0.4952	Sample packed.	
		0.5020	Empty supply boat	
		0.471	Av	
	0.471	Mean		
	0.028	Std Dev		



Av sample cycle time was 7-9 sec/sample.

Notes:

Powder is very fluffy with a lot of air. Aspirates as a "slug" of material.
 Air pressure was set to min. flow needed to aspirate the pipette as well as control loose particles.
 Powder tends to clump affecting the tap density as the supply vessel is depleted.
 The small amount of the customer supplied sample required continual recycling of material.
 This causes the cyclical variations seen in the sample weight as the supply vessel was emptied.
 A larger supply source should normalize the sample sizes.
 Testing a smaller sample size, .1 gm, to reduce recycling the samples confirmed that the variations caused by recycling smoothed the sample weight variation.