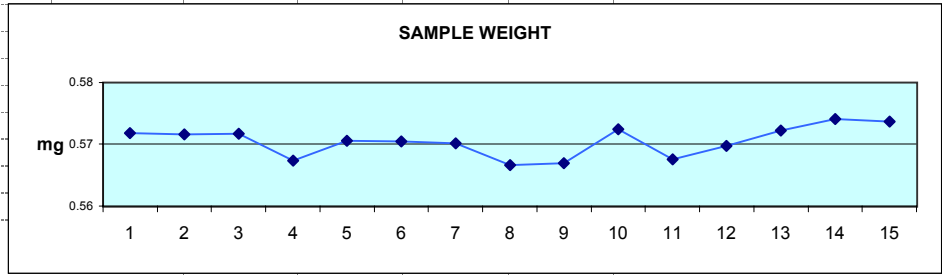


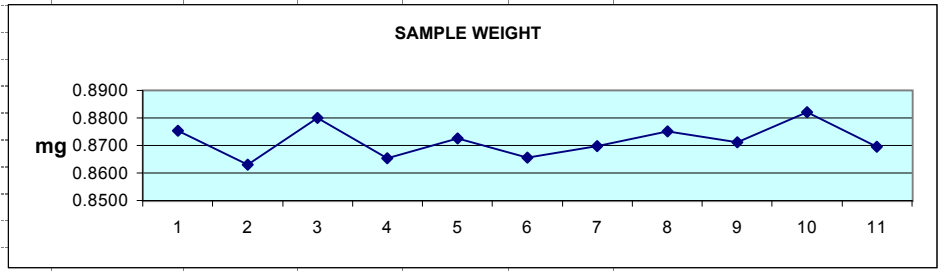
Customer	Genzyme						
Material	HA-CMC Sodium Hyaluronate and	Est. Bulk Density	0.2 gm/cc	Date	8/22/03		
Desired Sample size	.57 gm			rh	60%		
Desired accuracy	+/-2 gm% Repeatability of samples at various settings			Pipette Size	.500 dia. PIPETE		

Micrometer setting	Sample weight gm	Control unit settings	
		Vacuum (1in hg)	Air (psi)
0.82 ↓ sample packed Tap density changes  sharp edge ↓  ↓	0.5712	10	4
	0.5709		
	0.5711		
	0.5656		
	0.5696		
	0.5695		
	0.5691		
	0.5646		
	0.5650		
	0.5720		
	0.5658		
	0.5685		
	0.5717		
	0.5740		
	0.5735		



0.5695	Av
0.5695	Mean
0.0029	Std Dev

1.4 Max) ↓	0.8753
	0.8630
	0.8801
	0.8653
	0.8725
	0.8655
	0.8698
	0.8752
	0.8712
	0.8822
	0.8695



0.8718	Av
0.8718	Mean
0.0061	Std Dev

Notes:  
 Material slightly hygroscopic. Weight increased slightly the longer the material was exposed in the pick boat  
 Samples tended to pack using the scraper. Change of tap density .  
 Suggest sharp edge or wire to level tip end for small samples.  
 Larger samples were more uniform using the scraper plate.

**Will need a longer pipette to handle the >1.0 gm requirement as the bulk density is low.**  
**Will also require a special tip or funnel to dispense into the vials as the tip OD and vial ID are the same.**