

Figure 1- In OD (600nm) profile of the culture samples during the Fed batch cultivations at three specific growth rates a) μ =0.2h⁻¹, b) μ =0.3h⁻¹, c) μ =0.4h⁻¹ at an induction OD of 30.





Figure 2- Plot of a) $RPM^2 v/s OUR$, b) $RPM^2 v/s CER$ pre-induction during the Fed batch cultivation.



Figure 3 - Showing standard curve prepared with known quantities of BSA loaded on SDS-PAGE stained with SYPRO Ruby.

SUMMARY				
Groups	Count	Sum	Average	Variance
0h/0h	10208	10185.34	0.99778	0.001598
2h/2h	10208	10167.25	0.996008	0.003158
4h/4h	10208	10134.46	0.992796	0.004201
6h/6h	10208	10212.03	1.000395	0.001331

Table 2a- ANOVA: single factor for the top 100 down-regulated genes across differential time points.

Groups	Count	Sum	Average	Variance
0h/0h	100	99.38767	0.993877	0.004351
2h/0h	100	116.0784	1.160784	0.002323
4h/0h	100	115.4348	1.154348	0.004591
6h/0h	100	111.7892	1.117892	0.013333

SUMMARY

ANOVA

Source of Variation	SS	df	MS	F	P-value	F crit
					2.14E-	
Between Groups	1.804969	3	0.601656	97.83618	47	2.627441
Within Groups	2.435254	396	0.00615			
Total	4.240223	399				

Table 2b-ANOVA: single factor for the top 100 up-regulated genes across differential time points

SUMMARY

Groups	Count	Sum	Average	Variance
0h/0h	100	100.561	1.00561	0.00172
2h/0h	100	86.13332	0.861333	0.001025
4h/0h	100	90.39014	0.903901	0.003399
6h/0h	100	92.63904	0.92639	0.005931

ANOVA

Source of						
Variation	SS	df	MS	F	P-value	F crit
					9.04E-	
Between Groups	1.099663	3	0.366554	121.4197	56	2.627441
Within Groups	1.195485	396	0.003019			
Total	2.295148	399				