

**Table S2.** Analysis of variance of central composite design for biomass production using spent osmotic solution.

Source	DF <sup>a</sup>	SS <sup>b</sup>	MS <sup>c</sup>	F-Value	P-Value
Model	6	10.9462	1.82437	23.88	<0.001
Blocks	1	0.0047	0.00475	0.06	0.021
Linear	2	3.4053	1.70266	22.29	0.002
X1 (SOS)	1	1.6275	1.62754	21.31	0.003
X2 (YE)	1	1.7778	1.77778	23.27	0.002
Square	2	7.1934	3.59671	47.08	<0.001
X1*X1	1	4.1712	4.17119	54.60	<0.001
X2*X2	1	0.7717	0.77171	10.10	0.016
2-Way Interaction		0.0419	0.04193	0.55	
X1*X2	1	0.0419	0.04193	0.55	0.483
Error	7	0.5347	0.07639		
Lack-of-Fit	3	0.3699	0.12329	2.99	0.159
Pure Error	4	0.1649	0.04122		
Total	13	11.4810			

<sup>a</sup>DF. degree of freedom; <sup>b</sup>SS. sum of squares; <sup>c</sup>MS. mean squares