

SUPPLEMENTARY MATERIAL TO
Statistical optimization of lipase production from oil mill effluent by *Acinetobacter* sp. KSPE71

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TABLE S-I. Actual and coded levels of experimental factors used in Central composite design.

Factors	Levels		
	Low (-1)	Medium (0)	High (+1)
pH	6	7	8
Temperature, °C	30	35	40
Inoculum size, %	0.25	0.5	0.75
Agitation speed, rpm	100	150	200

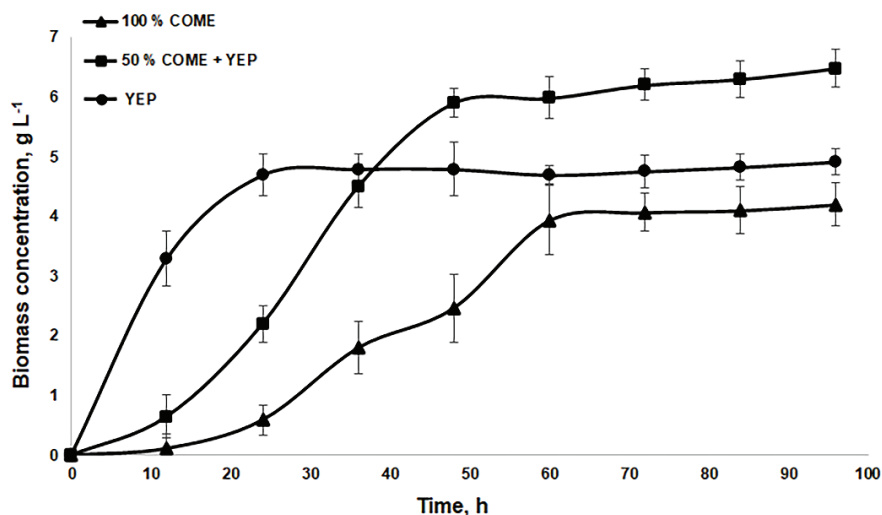


Fig. S-1. Time profile for *Acinetobacter* sp. KSPE71 growth in COME (50 % dilution and 100 %) and YEP as a growth medium.

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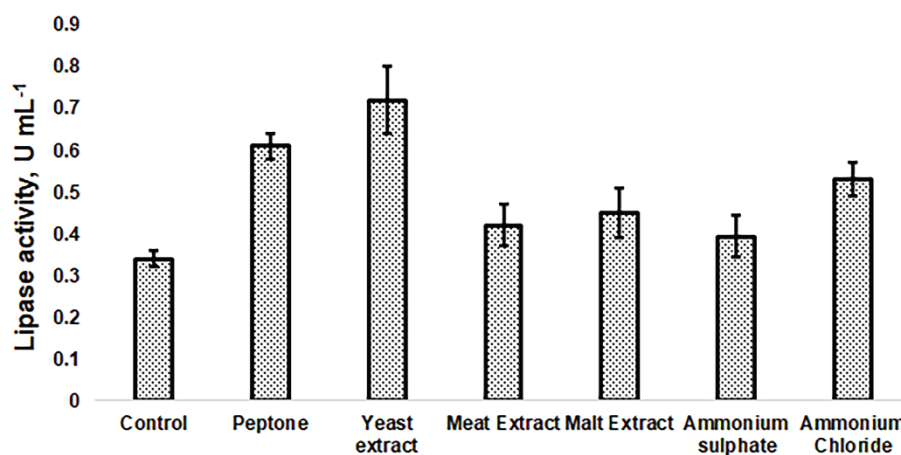


Fig. S-2. Effect of supplementation of coconut oil mill effluent with different nitrogen sources (0.2 % w/v) on lipase production

TABLE S-II. Predicted and experimental values obtained for validation of the model

Run order	pH	Temperature, °C	Inoculum size, %	Agitation speed, rpm	Lipase activity U mL ⁻¹	
					Actual	Predicted
1	7.5	35	0.6	150	3.95	3.88
2	8	35	0.5	150	3.46	3.69
3	7	33	0.5	120	3.29	3.33
4	8	37	0.4	120	3.11	3.00
5	7.5	35	0.3	150	3.18	2.92
6	8.5	35	0.3	150	2.28	2.46
7	7.5	35	0.7	150	3.68	3.79
8	8	35	1	150	2.45	2.34
9	6	35	0.5	150	2.98	3.04
10	7.5	35	0.5	150	3.57	3.77