

Table 1 - Screening of different fungal strains for their abilities to accumulate lipid.

Microorganisms	Biomass (gL ⁻¹)	Lipid (gL ⁻¹)	% lipid / mass
<i>Aspergillus oryzae</i> NRRL 447	10.0	2.0	20.0
<i>Aspergillus oryzae</i> NRRL 3484	13.4	1.9	14.0
<i>Aspergillus fumigatus</i> DSM 819	13.6	1.25	9.2
<i>Trichoderma viride</i> 314	13.4	3.63	27.1
<i>Trichoderma F635</i>	13.8	2.9	20.8
<i>Aspergillus niger</i>	14.0	2.0	17.9
<i>Pencillum funiculosum</i> NRC 258	18.0	3.75	20.8
<i>Pencillum politans</i> NRC 510	13.4	2.0	14.9
<i>Pencillum brevicompactum</i> NRC 829	15.5	3.25	21.0
<i>Trichoderma reesei</i>	14.0	2.9	20.5

Table 2 Growth and lipid (SCO) yields by *Trichoderma viride* differing initial physiological conditions.

Experimental conditions	Weight (gL ⁻¹)	
	Biomass	Lipid
Types of media		
PD liquid media	16	4.7
Czapek Dox's	12	1.5
PD media + yeast extract	9.2	1.0
PD media +wheat bran	13	2.0
PD media + molasses	10	0.99
Incubation temperature		
20°C	13.0	2.0
28°C	16.0	4.66
35°C	13.8	2.2
40°C	9.00	0.34
45°C	0.00	0.0
Incubation condition		
Static	16.0	4.5
Shaking	14.4	2.8
Lipid traction methods		
Chloroform/methanol (2:1)	16	5.0
hexane/isopropanol (3:2)	16	1.4
Soxhlet extraction	16	4.0

Table 3. Lipid content and fatty acid concentrations of Oleaginous Fungus *Trichoderma virde* NRC 314

Peak number	RT	Common name	Carbon number	Fatty acid (%)
3	11.373	Caprylic acid	C8:0	0.251
6	15.837	Capric acid	C10:0	0.310
8	18.746	Lauric acid	C12:0	1.412
9	19.533	Tridecylic acid	C13:0	0.699
11	22.099	Myristoleic acid	C14:1	0.7244
12	25.175	Pentadecenoic acid	C15:1	0.5045
13	30.428	Palmitoleic acid	C16:1	30.009*
15	32.1	Margaric acid	C17:0	0.7922
16	32.738	Heptadecenoic acid	C17:1	0.951
17	35.633	Linoleic Acid	C18:2	22.640*
18	36.515	-Linolenic acid	C18:3	12.167*
21	40.523	Arachidic acid	C20:0	0.7088
23	41.139	Mead acid	C20:3	1.049
24	42.361	Arachidonic acid	C20:4	1.1
26	44.089	Eicosapentaenoic acid	C20:5	4.181
27	44.589	Heneicosylic	C21:0	3.546
29	46.242	Erucic acid	C22:1	7.914*
30	48.182	Tricosylic acid	C23:0	0.625
31	51.861	Nervonic acid	C24:1	0.717
Saturated				8.30
Unsaturated				81.70
Others				10.0

