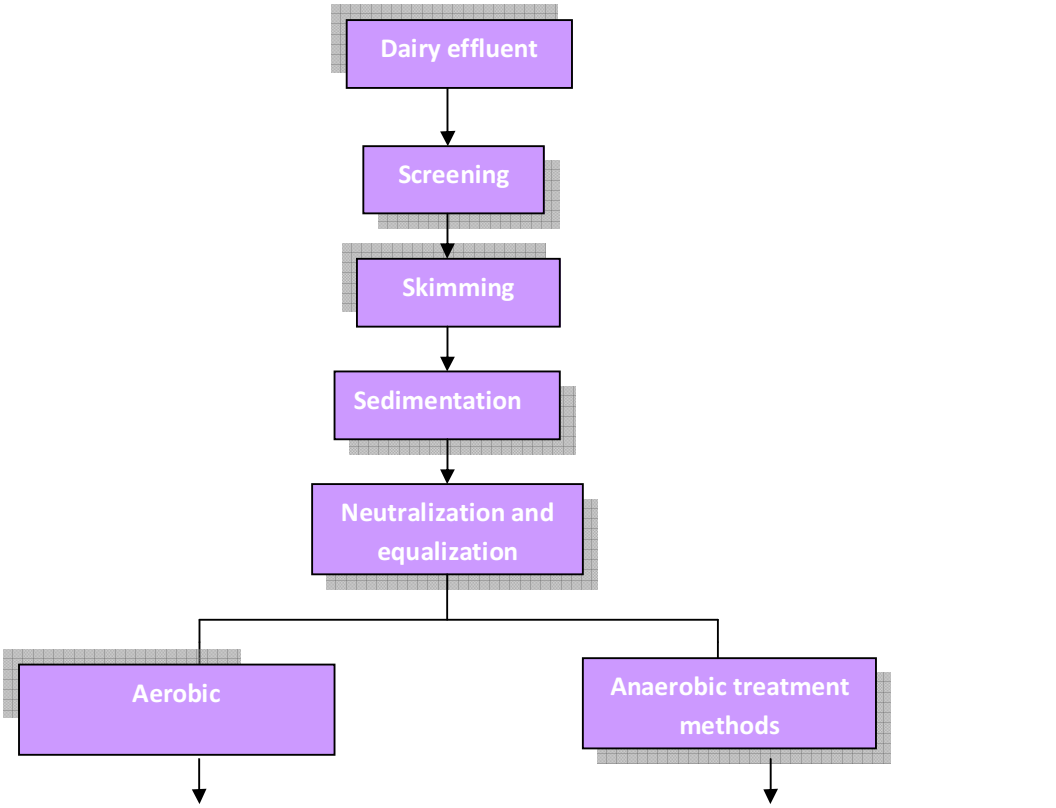
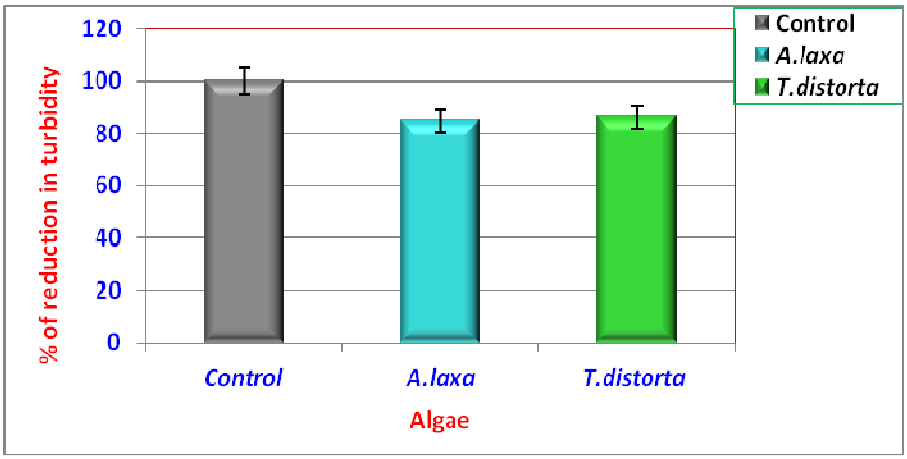


Fig.2 Schematic diagram of a dairy effluent treatment plant



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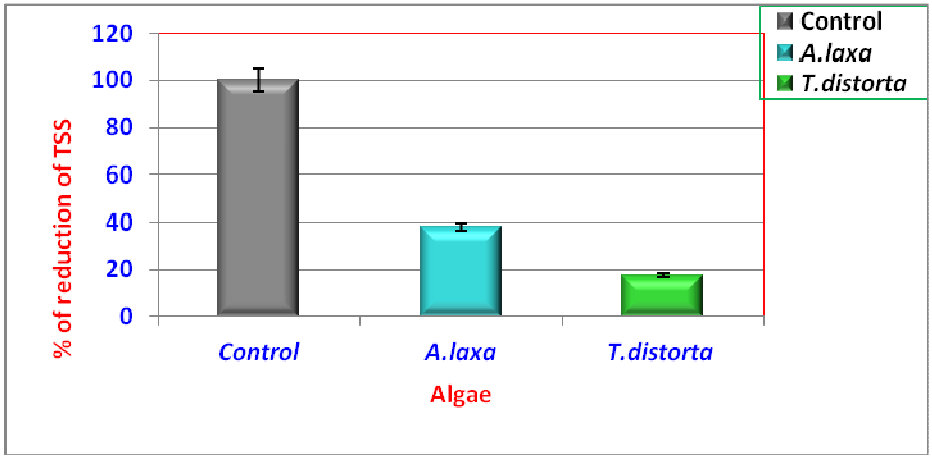

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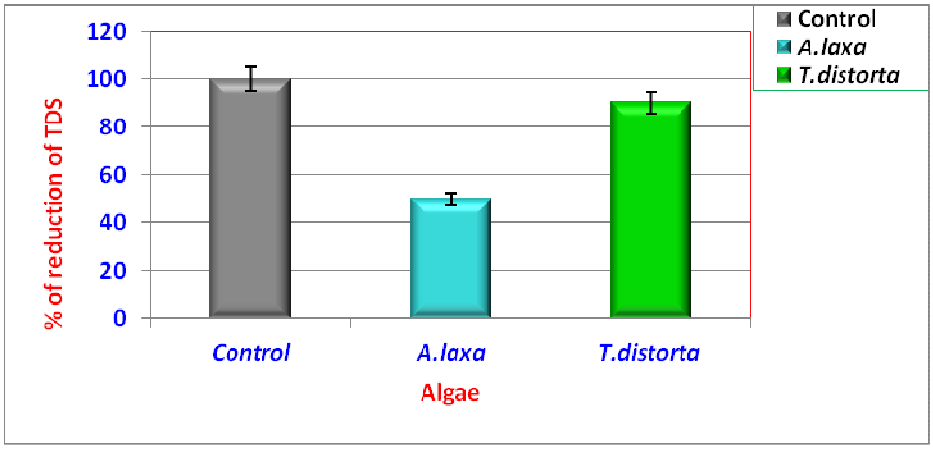
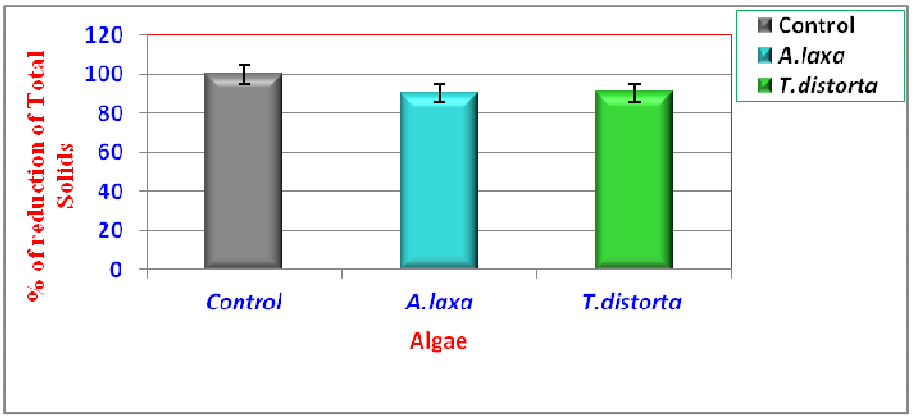


(c)

Fig. 3 Reduction of pollution load in Dairy effluent treated with *A. laxa* and *T. distorta* a) Turbidity b) Total Suspended Solids c) Total Dissolved Solids



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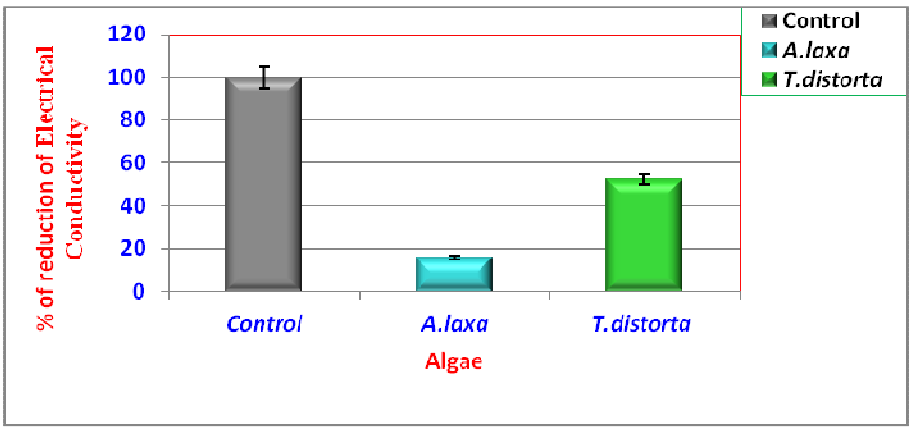

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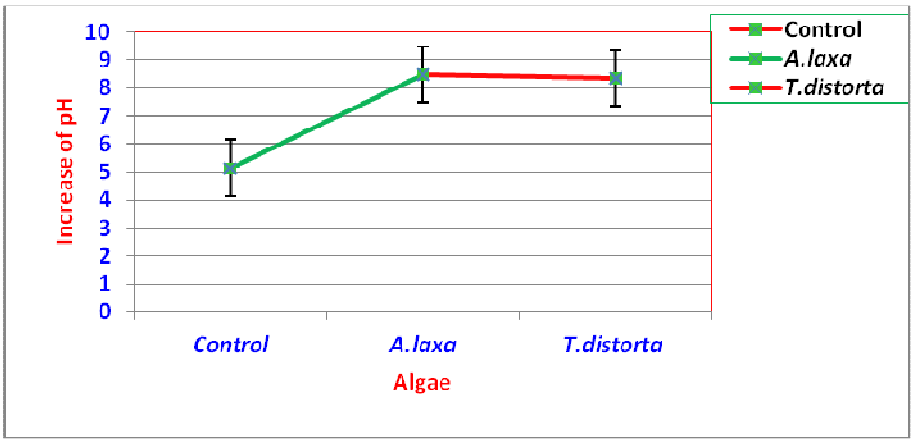
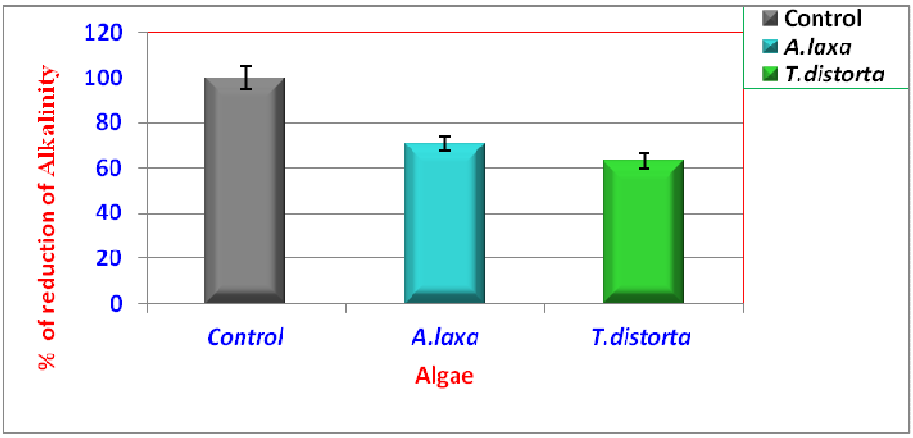


(c)

Fig.4 Reduction of pollution load in Dairy effluent treated with *A. laxa* and *T. distorta* a) Total solids b) Electrical conductivity c) Increase of pH



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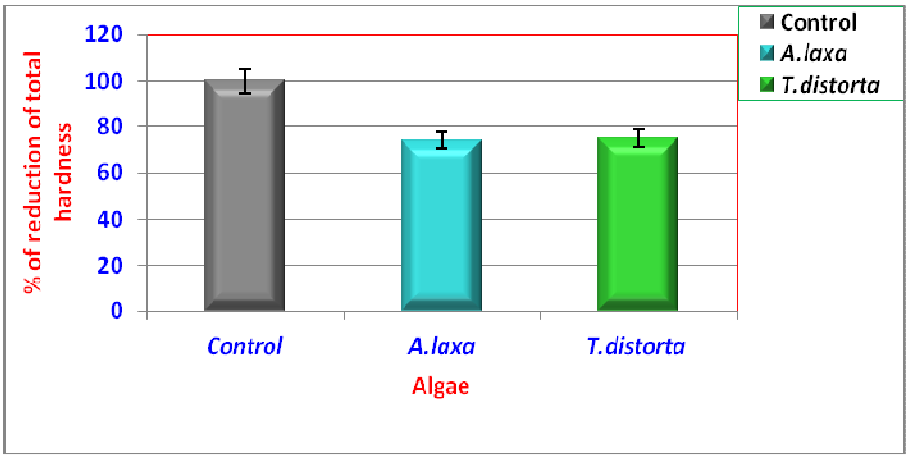

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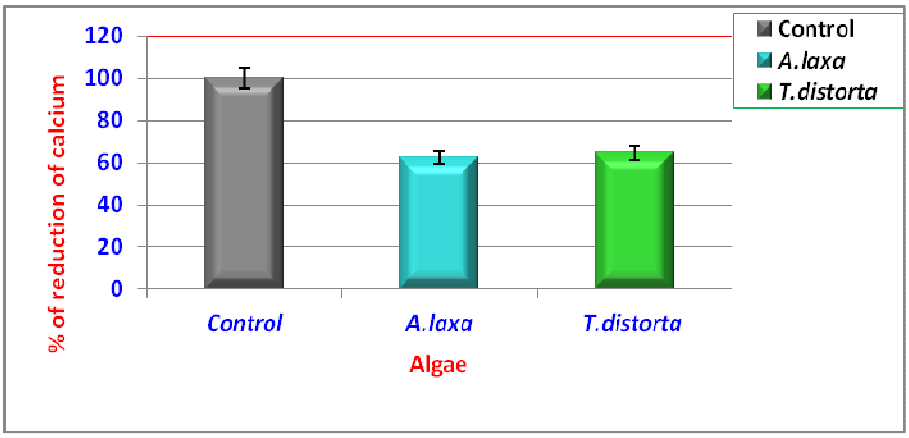
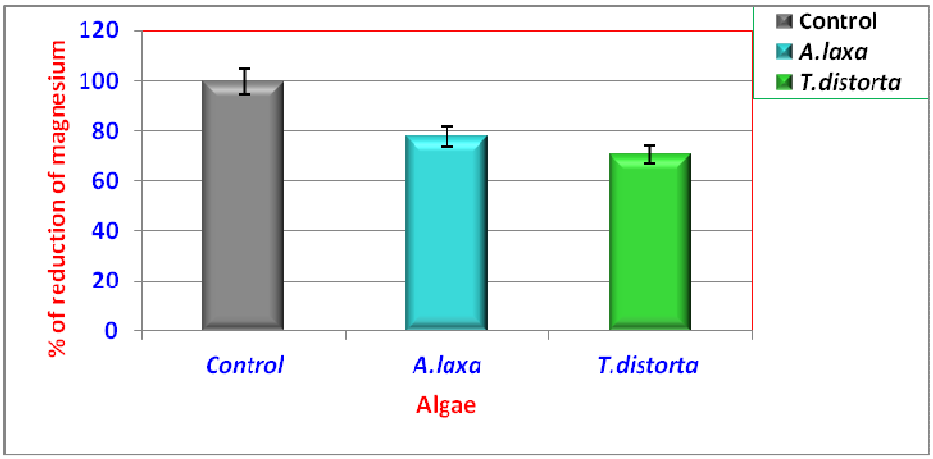


(c)

Fig.5 Reduction of pollution load in Dairy effluent treated with *A. laxa* and *T. distorta* a) Alkalinity b) Total hardness c) Calcium



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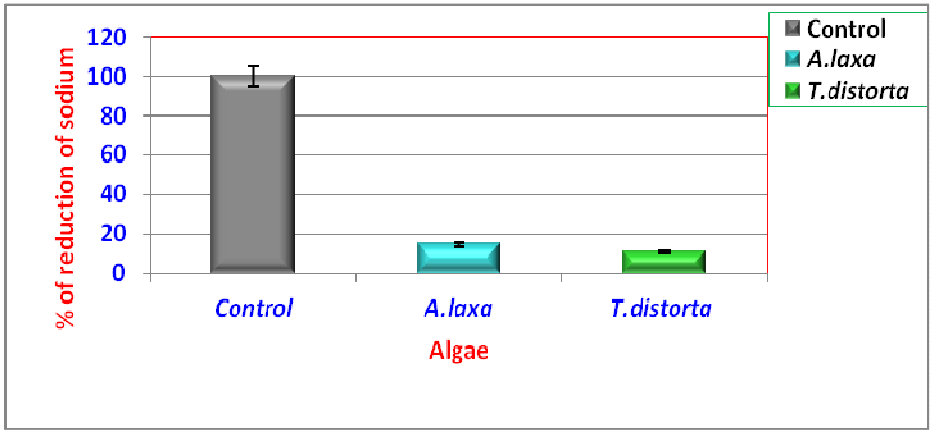

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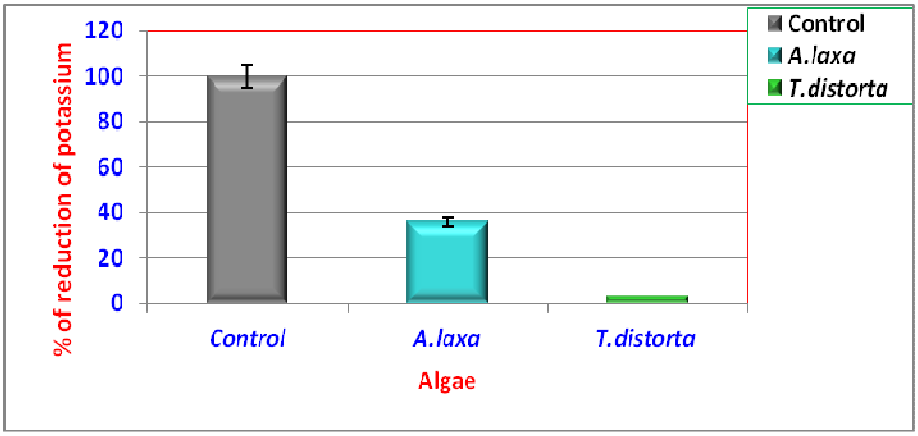
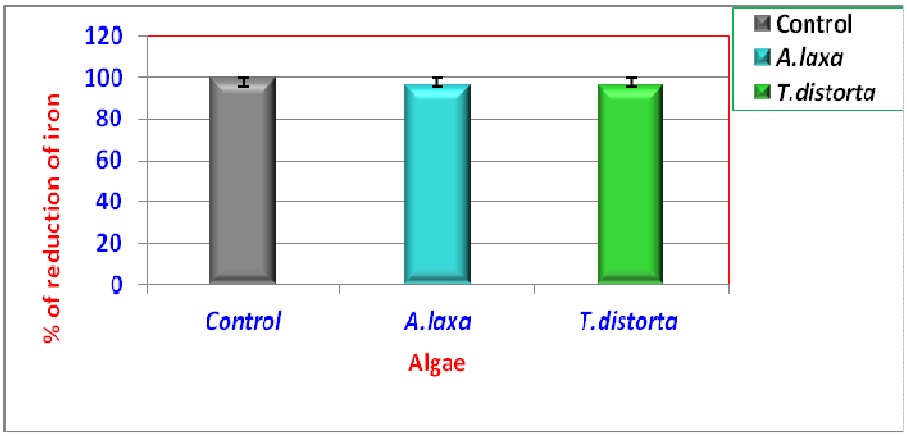


(c)

Fig.6 Reduction of pollution load in Dairy effluent treated with *A. laxa* and *T.distorta* a) Magnesium b) Sodium c) Potassium



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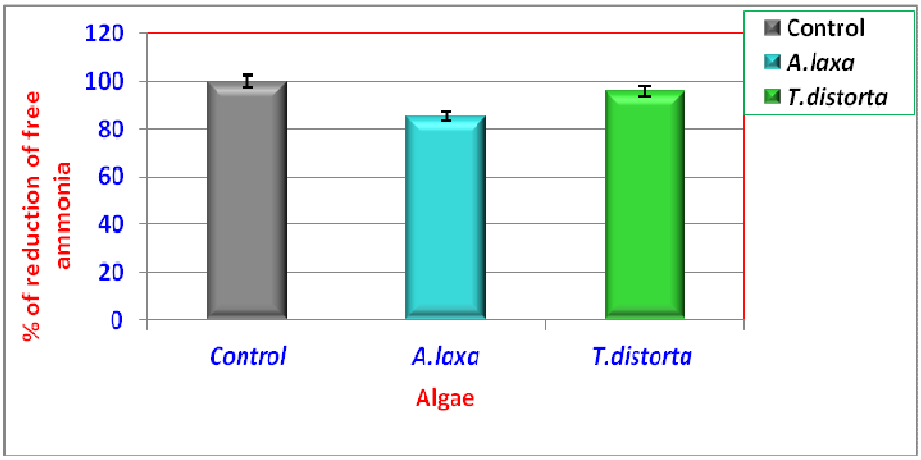

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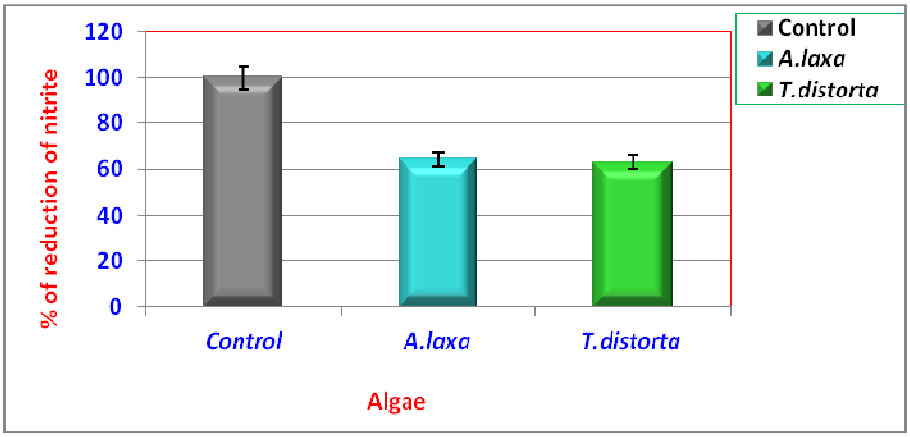
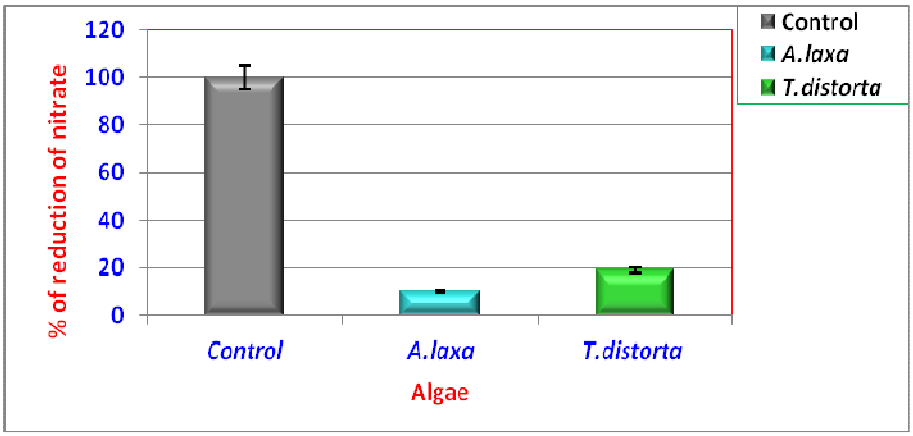
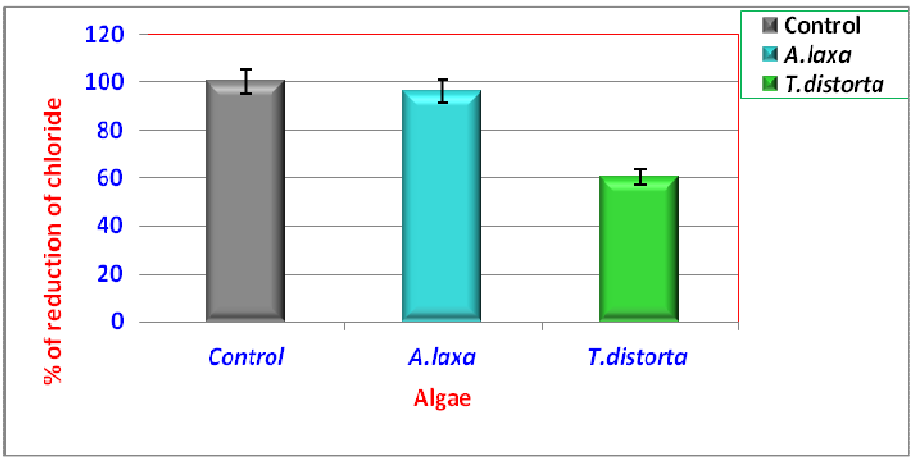


(c)

Fig.7 Reduction of pollution load in Dairy effluent treated with *A. laxa* and *T. distorta* a) Iron b) Free ammonia c) Nitrite



(a)



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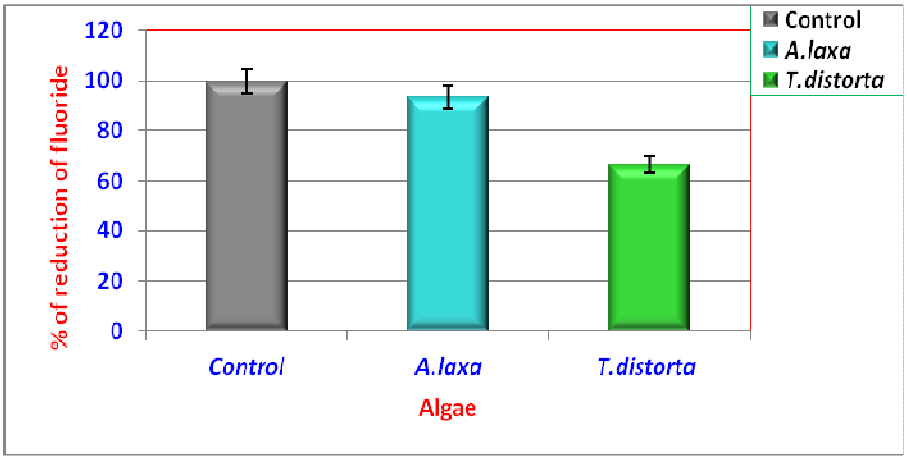
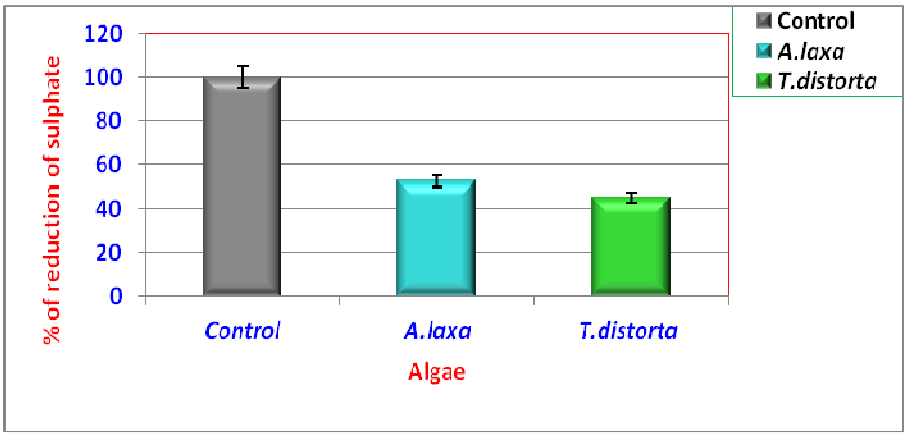


(c)

Fig.8 Reduction of pollution load in Dairy effluent treated with *A. laxa* and *T. distorta* a) Nitrate b) Chloride c) Fluoride



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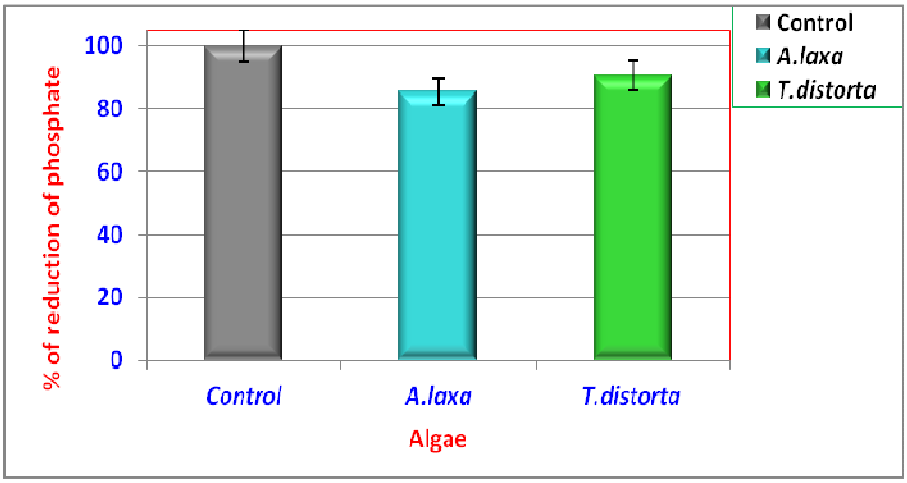

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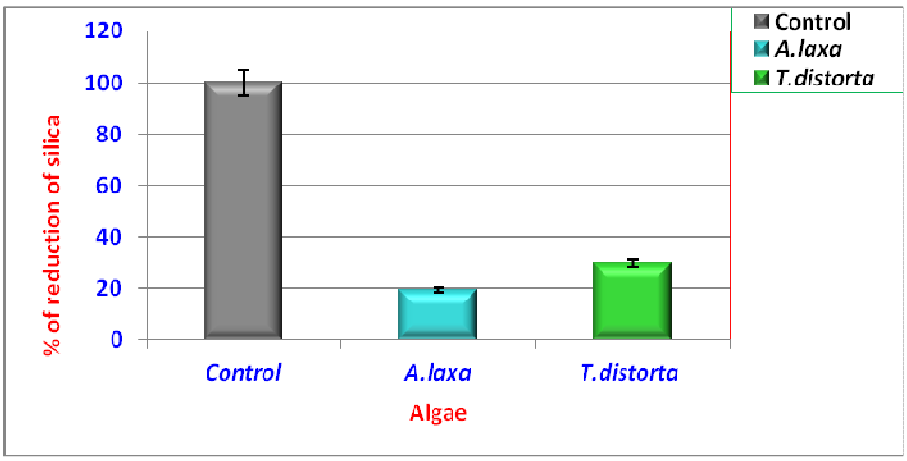
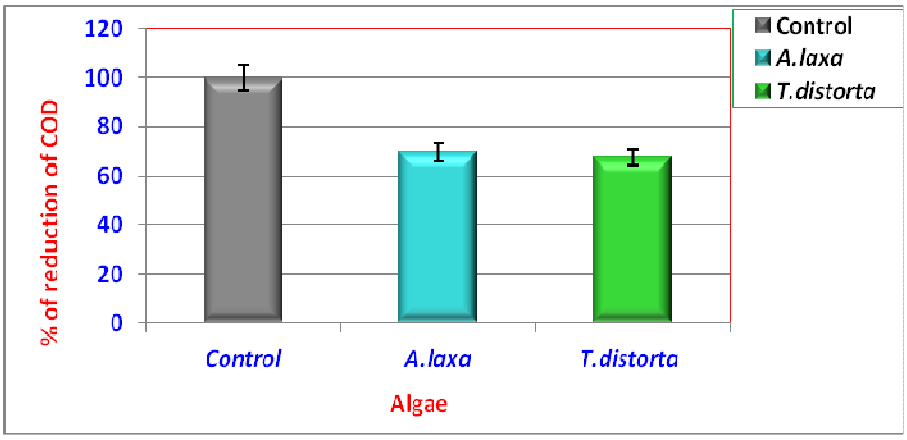


(c)

Fig.9 Reduction of pollution load in Dairy effluent treated with *A. laxa* and *T. distorta* a) Sulphate b) Phosphate c) Silica



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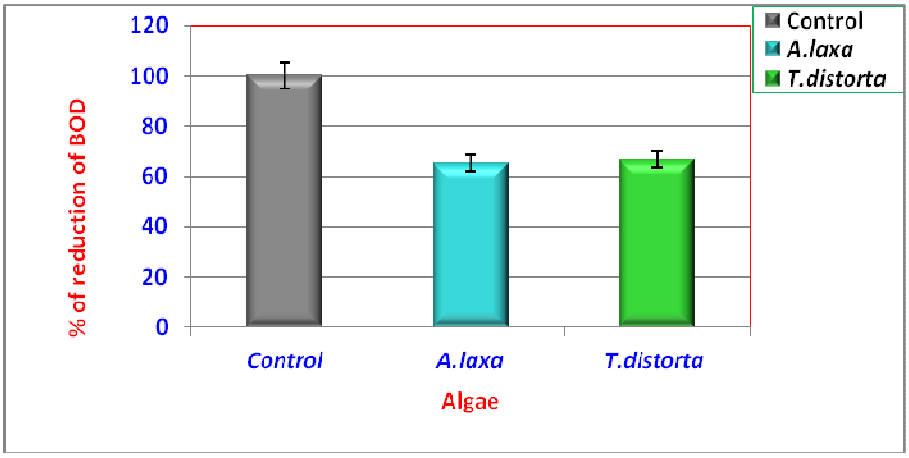

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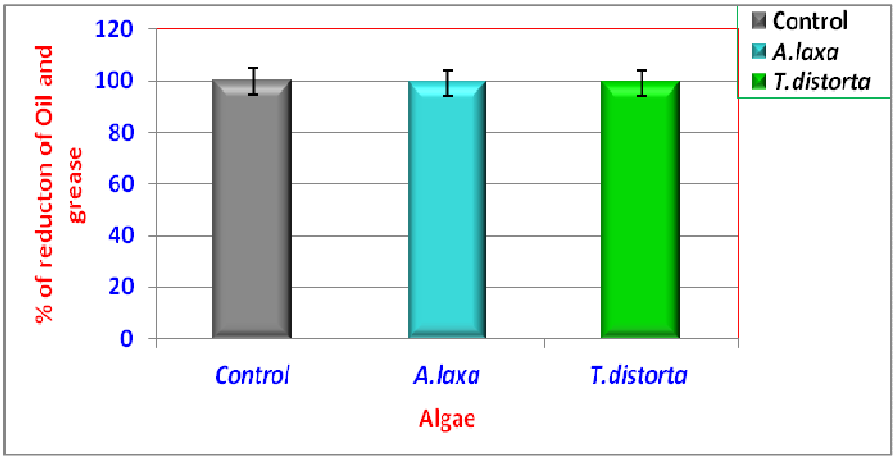
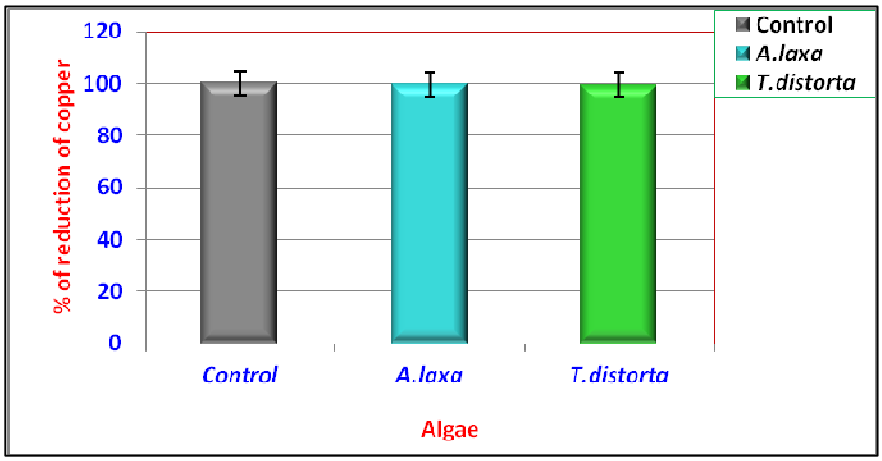


(c)

Fig.10 Reduction of pollution load in Dairy effluent treated with *A. laxa* and *T. distorta* a) COD b) BOD c) Oil and grease



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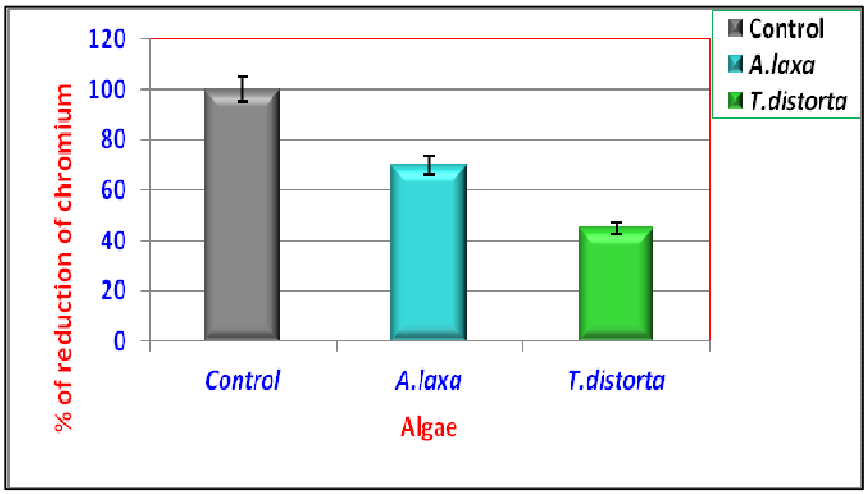
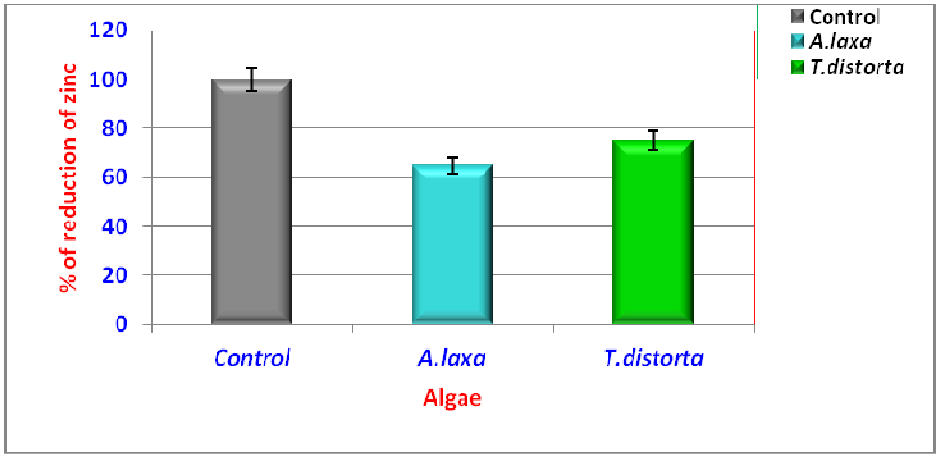
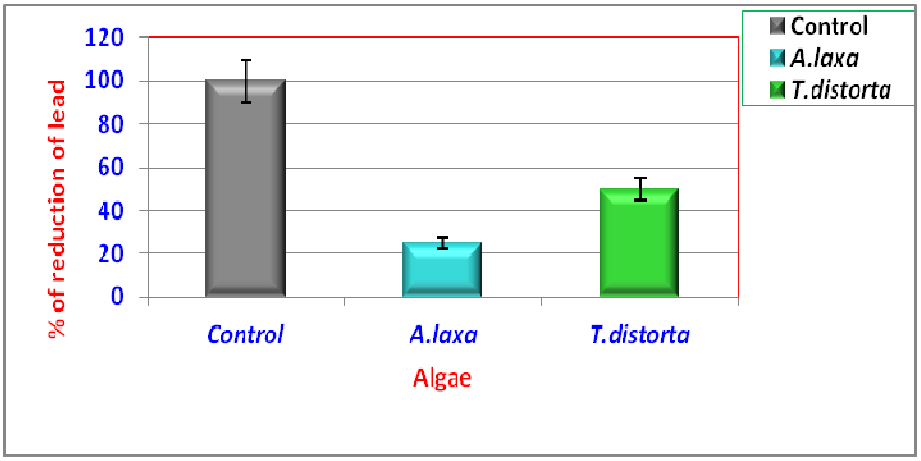


(b)

Fig.11 Reduction of heavy metals in Dairy effluent treated with *A. laxa* and *T. distorta* a) Copper b) Chromium



(a)



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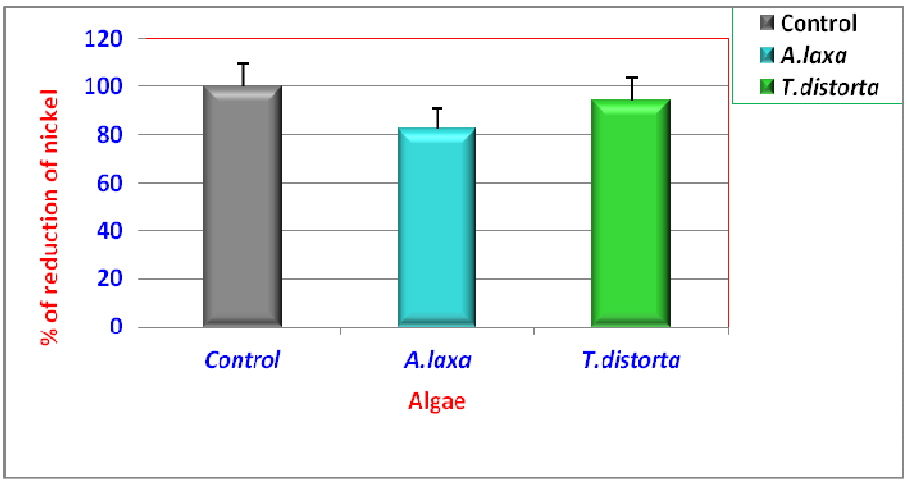
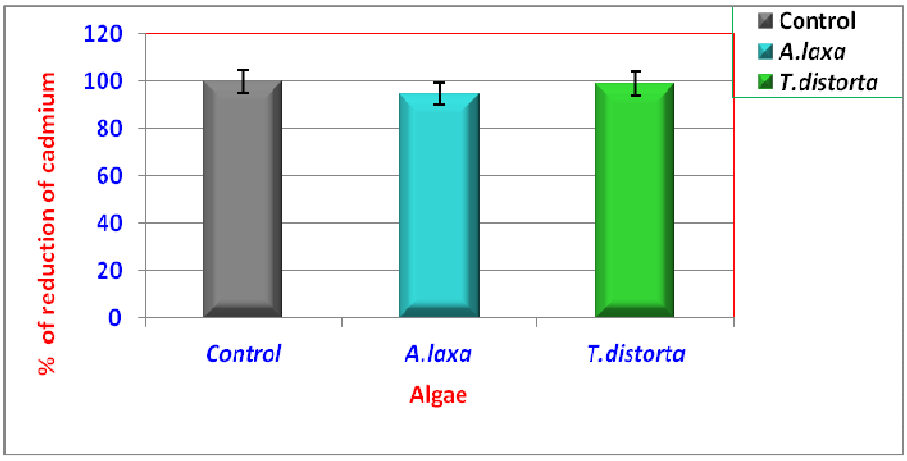


(c)

Fig.12 Reduction of heavy metals in Dairy effluent treated with *A. laxa* and *T. distorta* a) Zinc b) Lead c) Nickel



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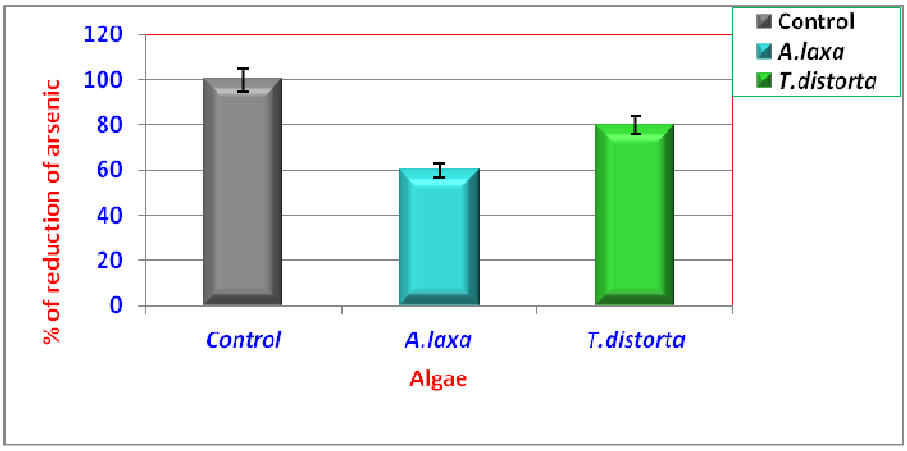

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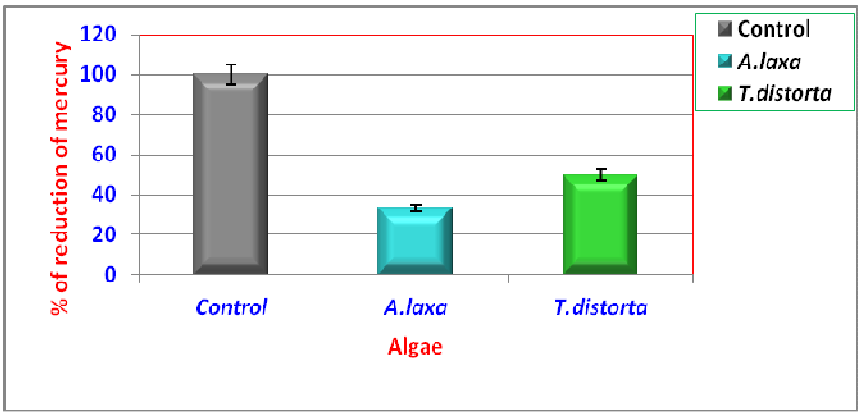


(c)

Fig.13 Reduction of heavy metals in Dairy effluent treated with *A. laxa* and *T. distorta* a) Cadmium b) Arsenic c) Mercury.

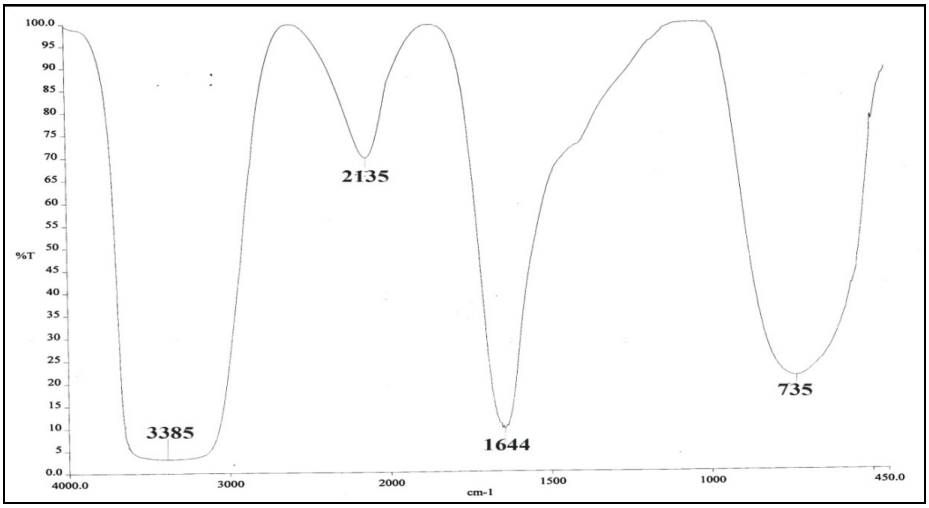
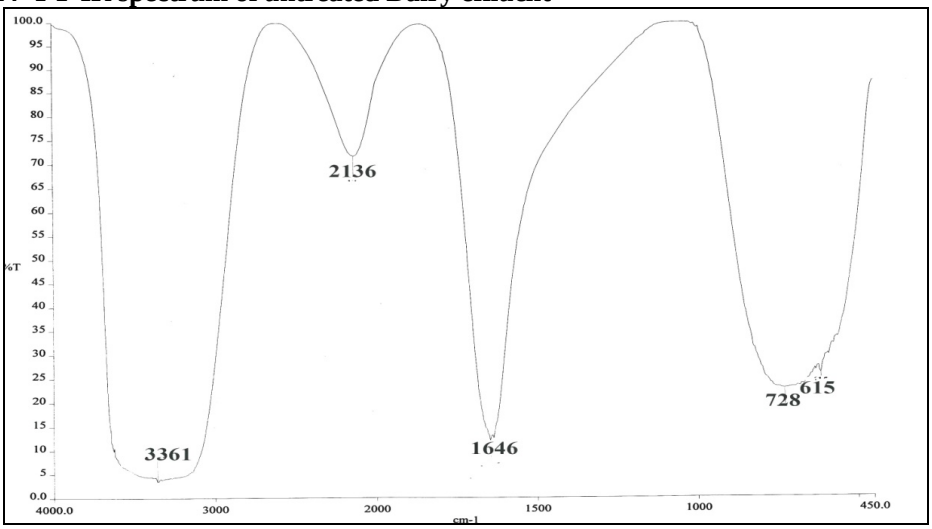
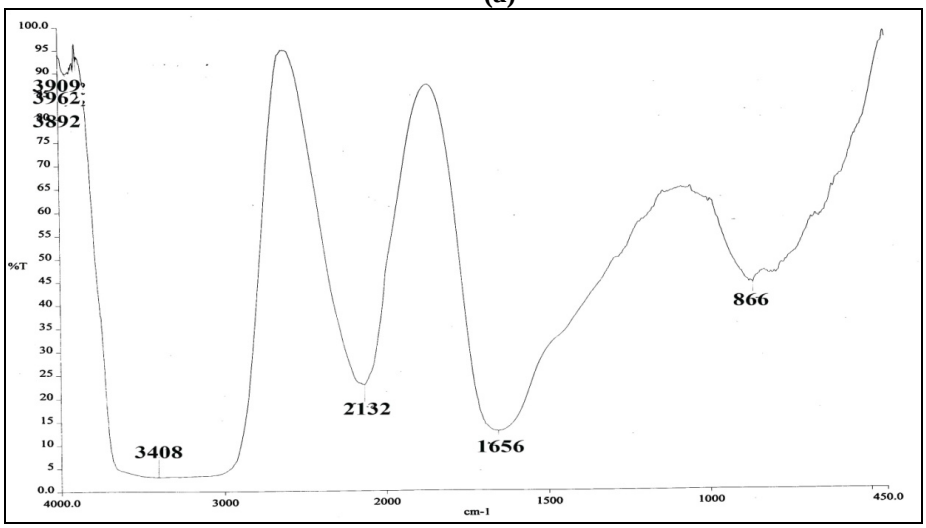


Fig.14 FT-IR spectrum of untreated Dairy effluent



(a)



(b)

Fig.15 FT-IR spectrum of treated Dairy effluent a) *A. laxa* b) *T. distorta*

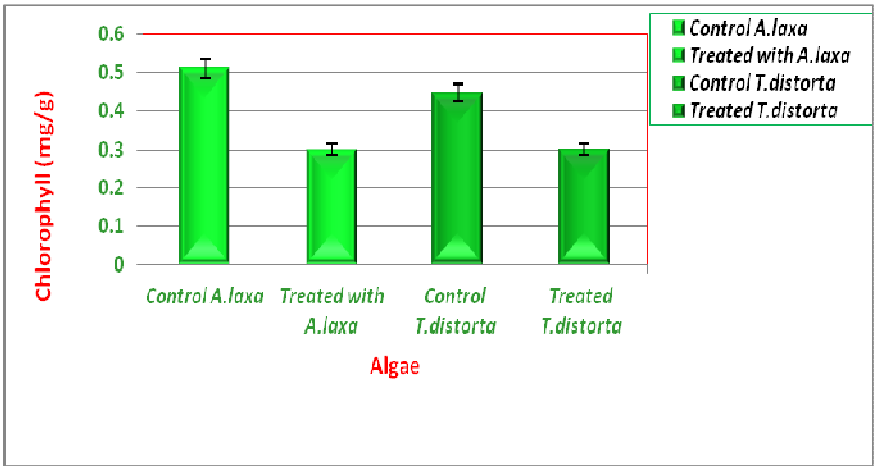


Fig.16 Quantitative analysis of chlorophyll content in the control and treated *A. laxa* and *T. distorta*

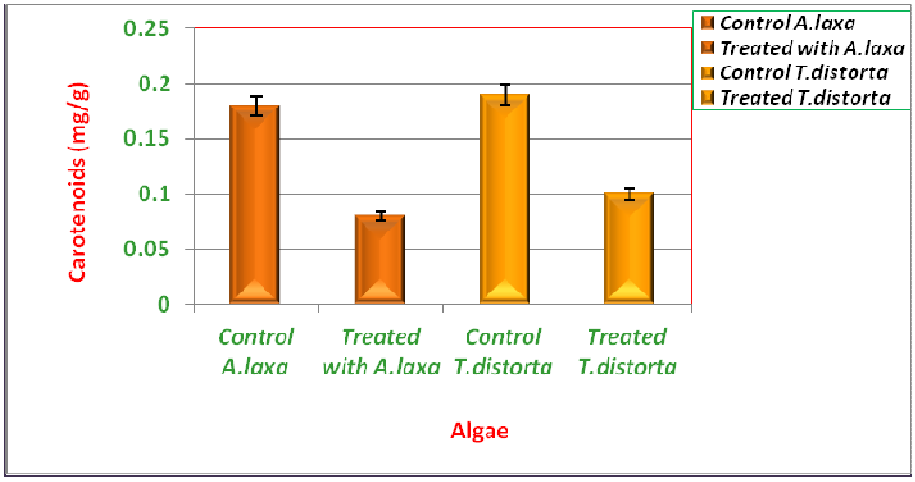


Fig.17 Quantitative analysis of carotenoid content in the control and treated *A. laxa* and *T. distorta*

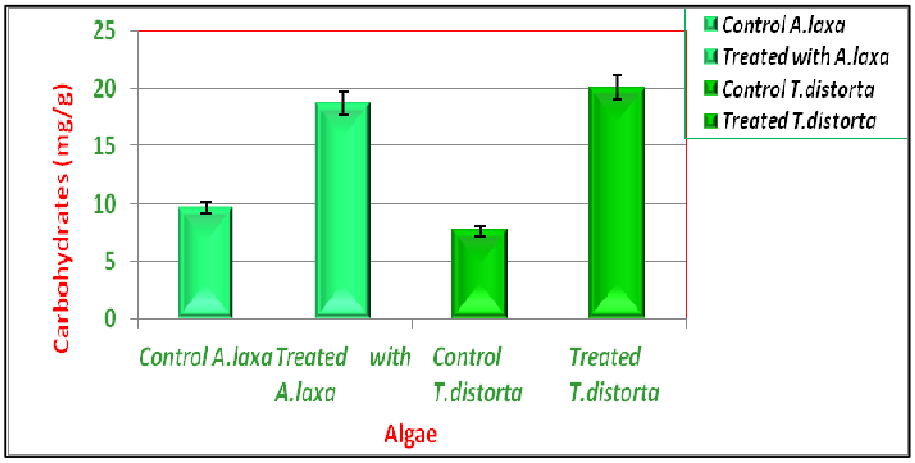


Fig.18 Quantitative analysis of carbohydrate content in the control and treated *A. laxa* and *T. distorta*

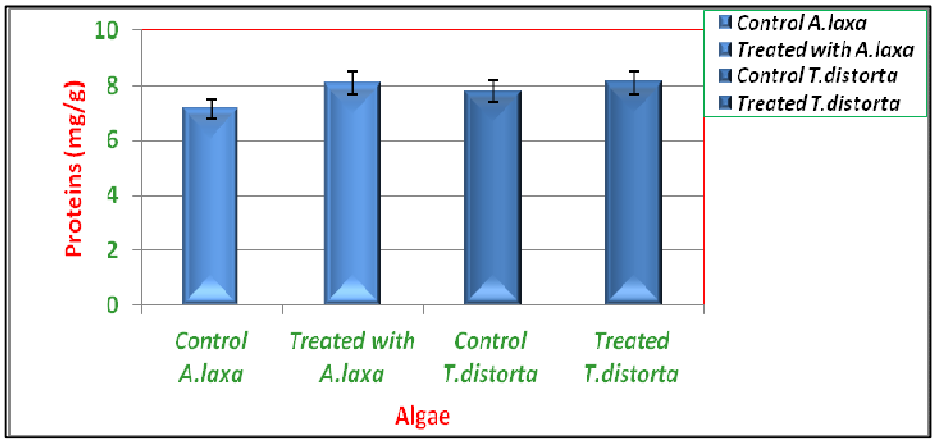


Fig.19 Quantitative analysis of protein content in the control and treated *A. laxa* and *T. distorta*

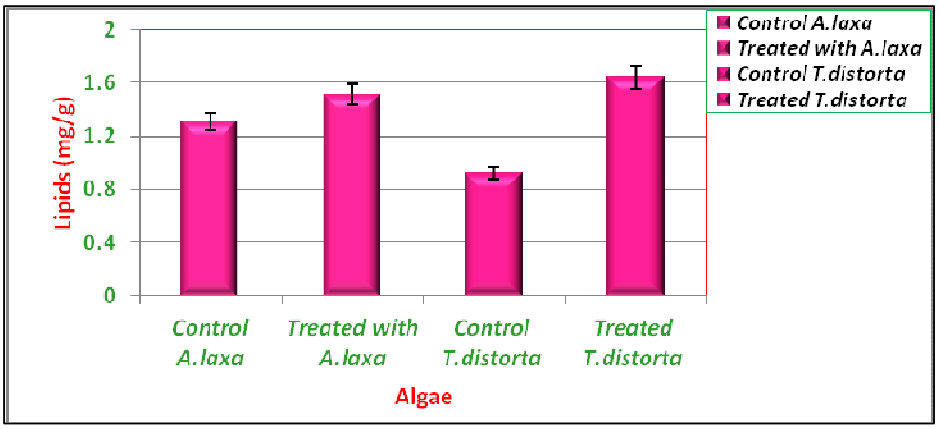
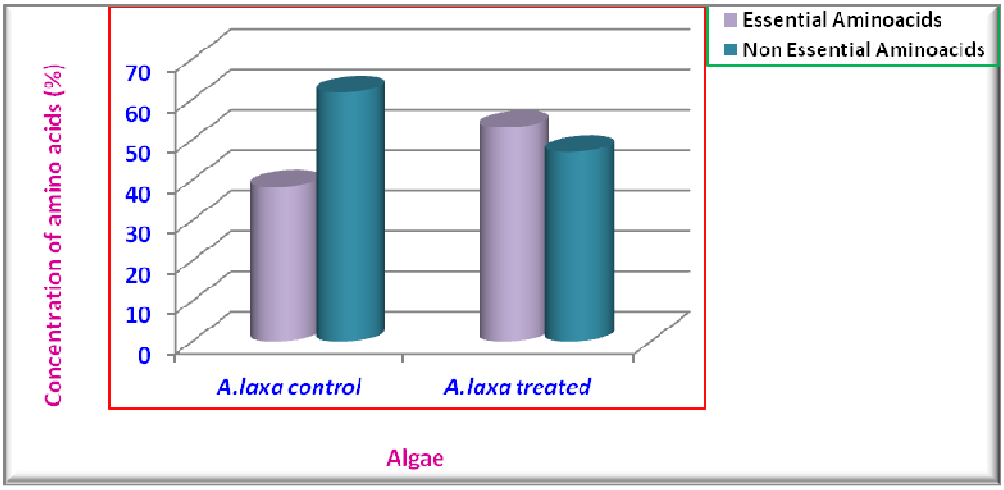
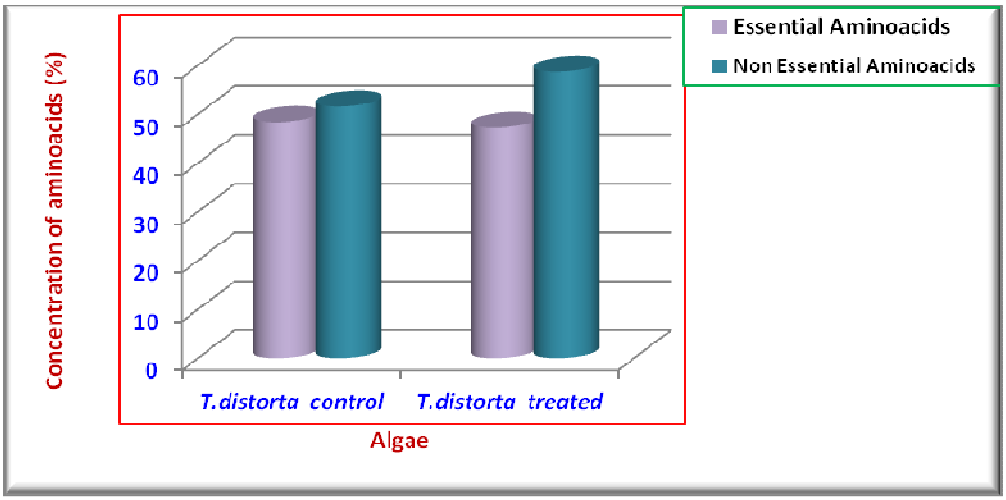


Fig.20 Quantitative analysis of lipid content in the control and treated *A. laxa* and *T. distorta.*



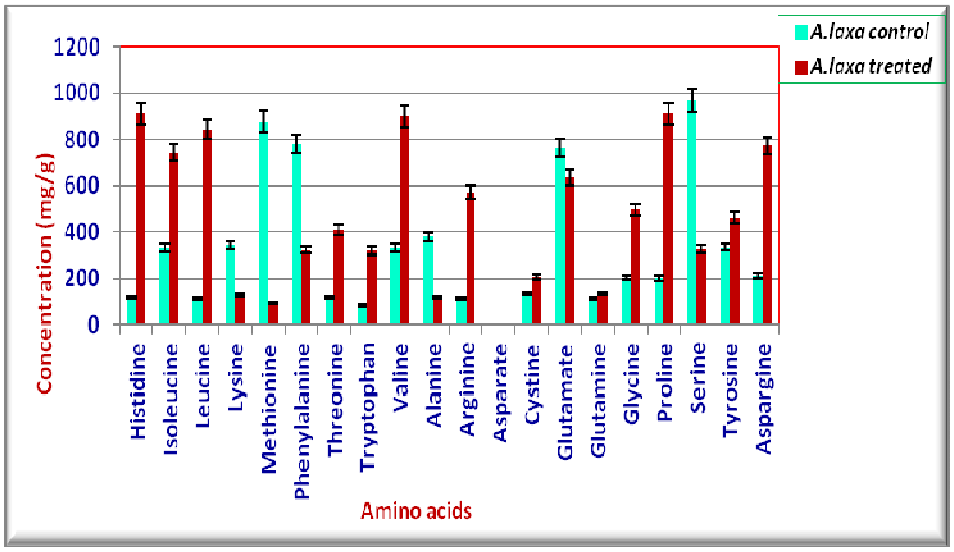
(a)



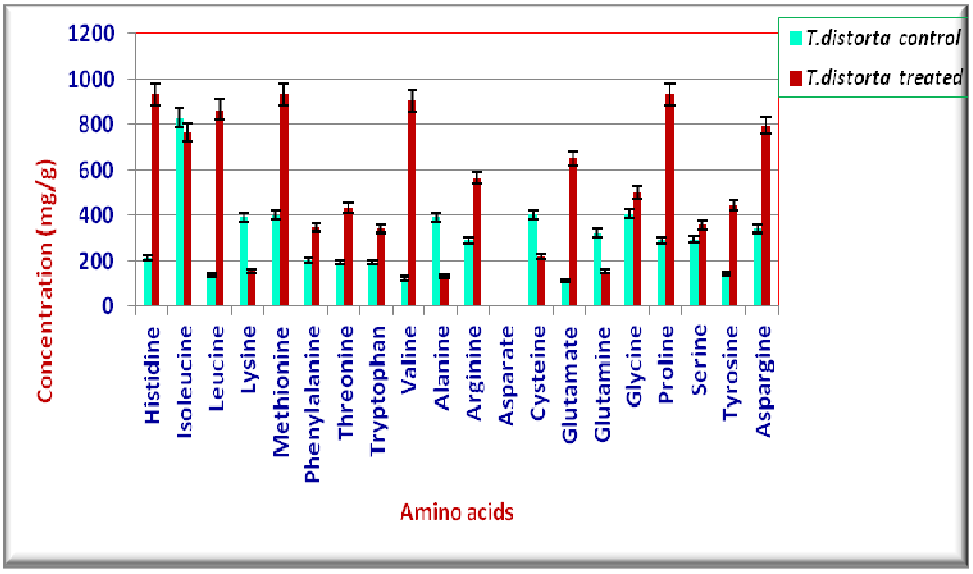
(b)

Fig.21a) Essential and non essential amino acid content in *A.laxa* before and after treatment.

b) Essential and non essential amino acid content in *T.distorta* before and after treatment.



(a)



(b)

Fig.22a) Amino acid content of Cyanobacteria biomass on Dairy effluent treated with *A. laxa*

b) Amino acid content of Cyanobacteria biomass on Dairy effluent treated with *T.distorta*

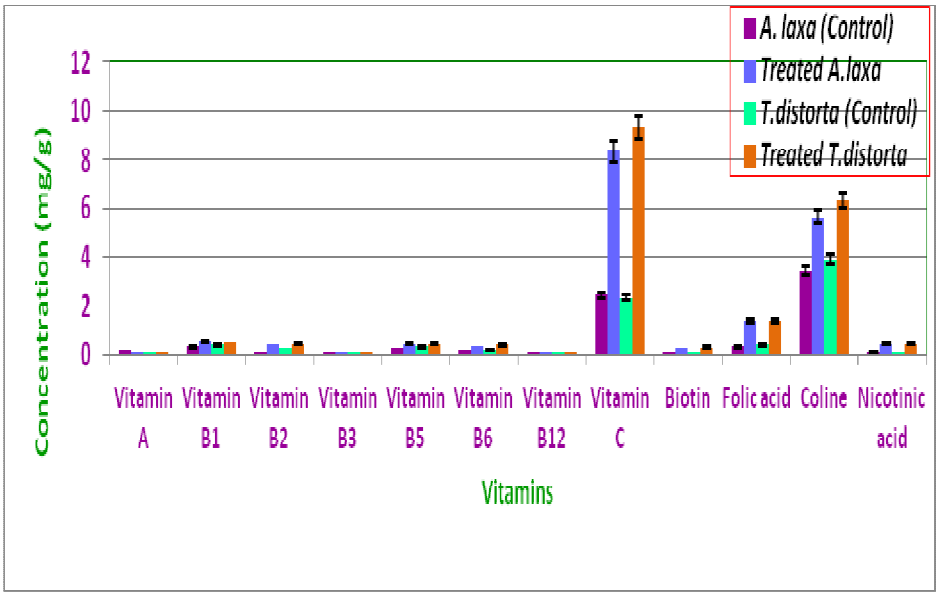


Fig. 23 Quantitative analysis of vitamin content in the control and treated *A. laxa* and *T. distorta.*

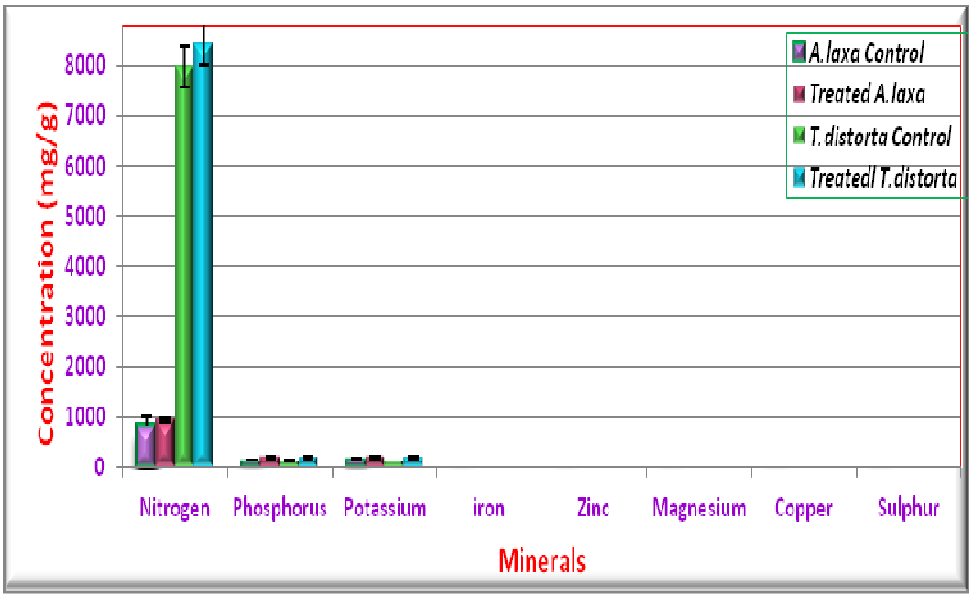


Fig.24 Quantitative analysis of the mineral content in the control and treated *Aulosira laxa* and *Tolypothrix distorta.*

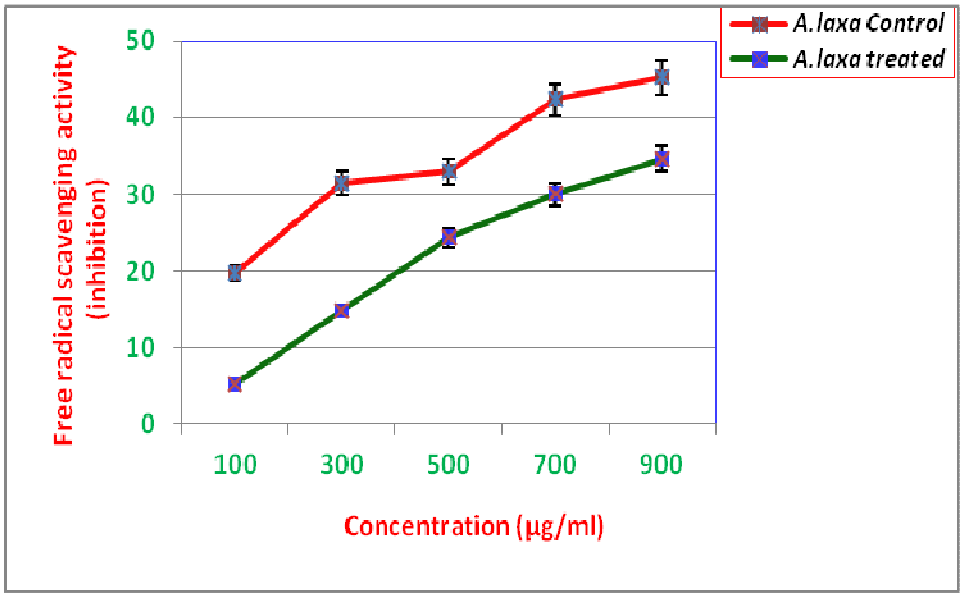


Fig.25 Scavenging activities of *A.laxa* extract on DPPH radical.

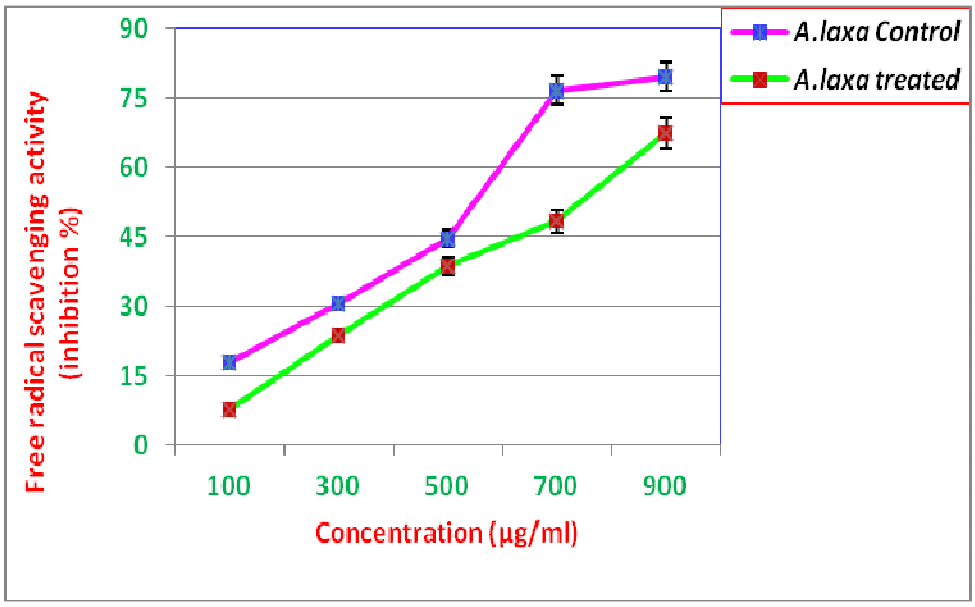


Fig.26 Scavenging activities of *A.laxa* extract on ABTS radical.

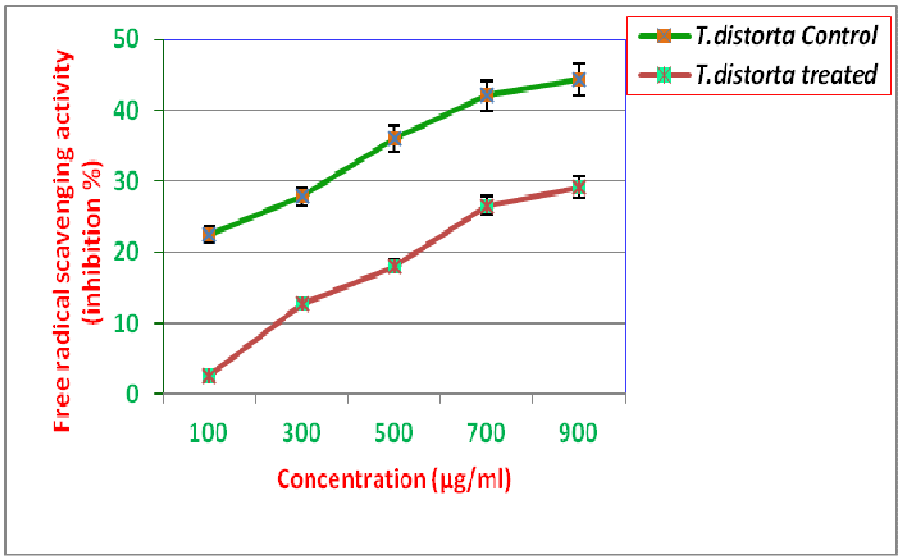


Fig.27 Scavenging activities of *T.distorta* extract on DPPH radical.

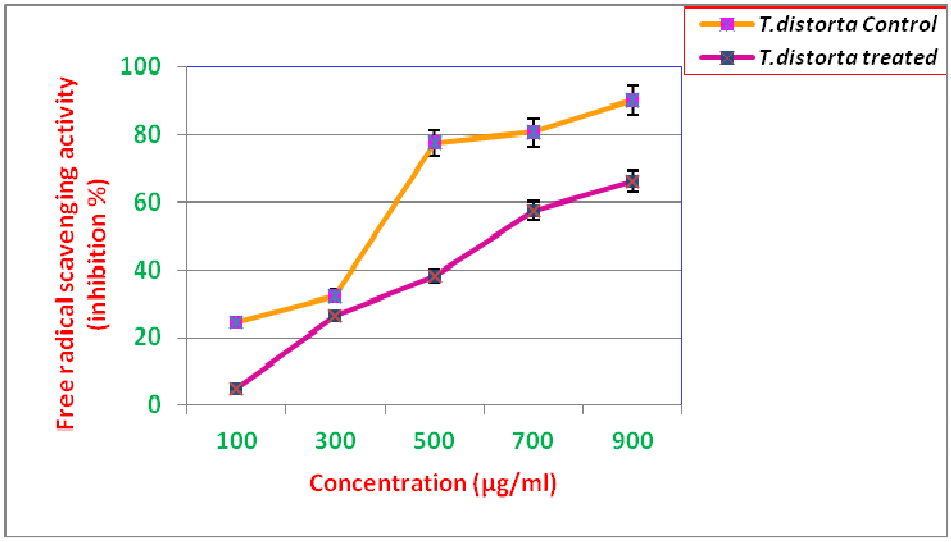
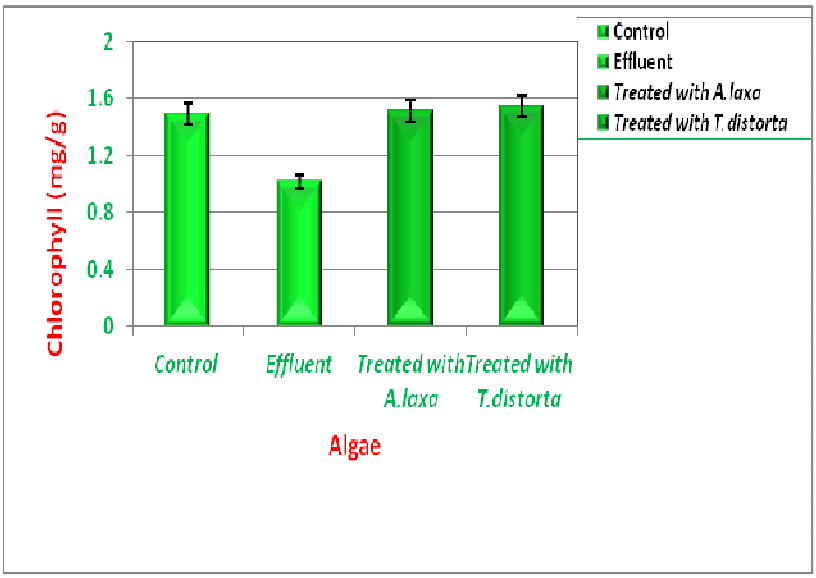
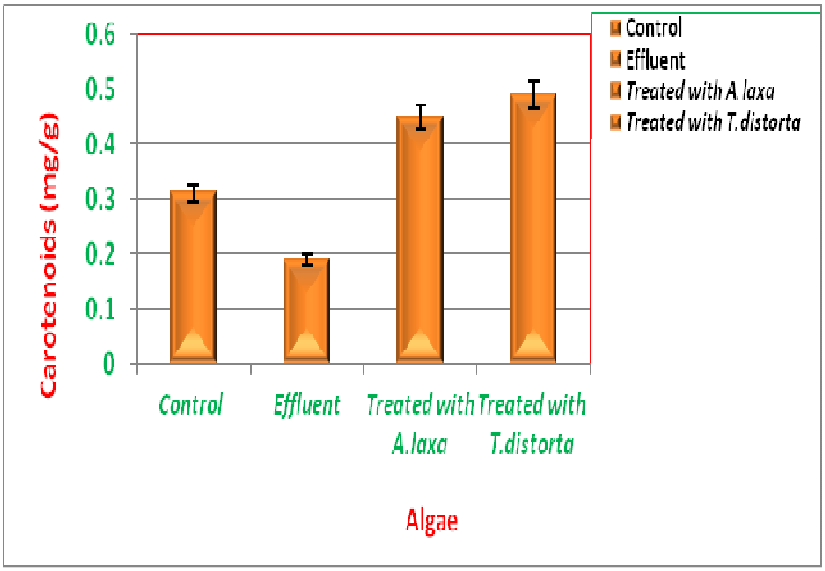


Fig.28 Scavenging activities of *T.distorta* extract on ABTS radical.



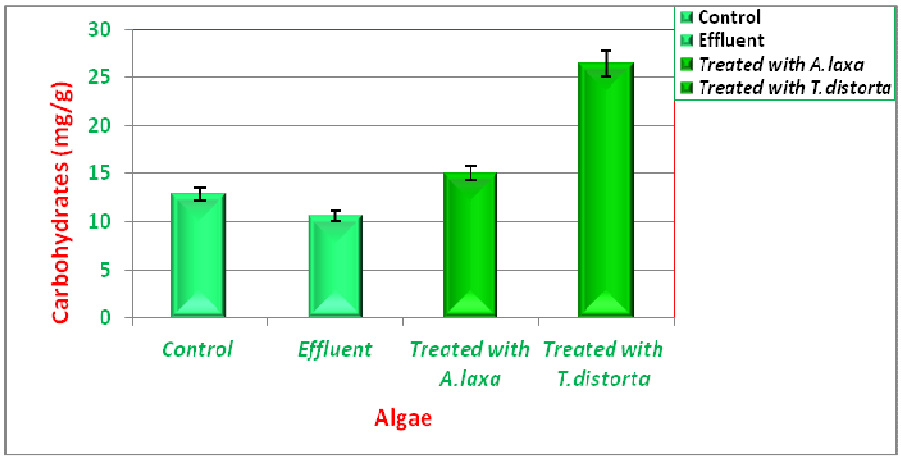
(a)



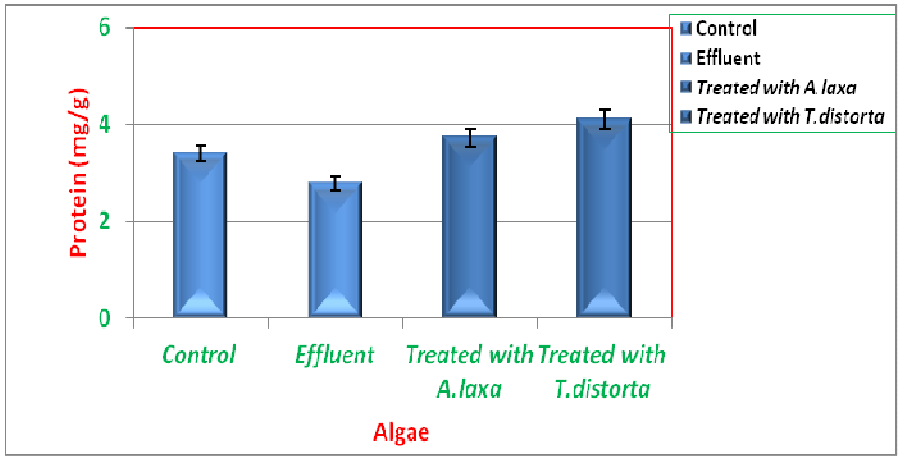
(b)

Fig.29 Effect of algal filtrates on photosynthetic pigments of *P.mungo*

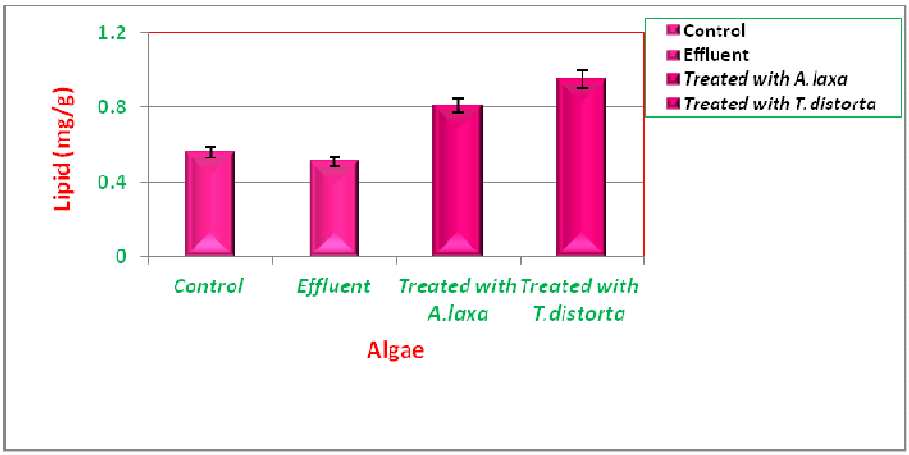
a) Chlorophyll b) Carotenoid



(a)



(b)



(c)

Fig. 30 Effect of algal filtrates on Biochemical composition of *P. mungo*

a) Carbohydrates b) Protein c) Lipid

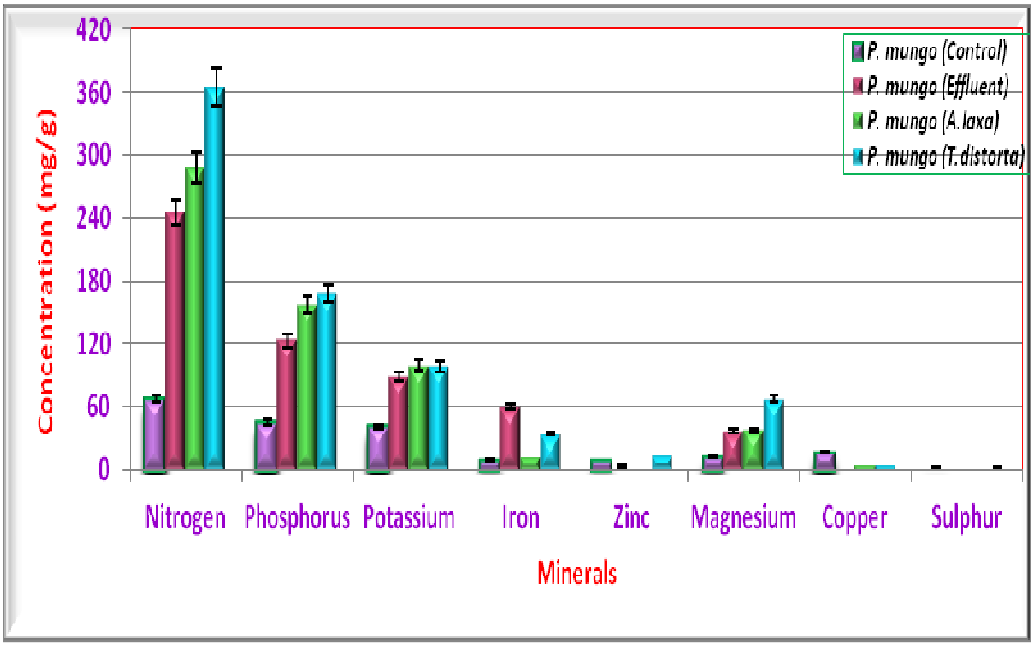


Fig. 31 Effect of untreated and treated Dairy effluent in mineral composition of black gram.

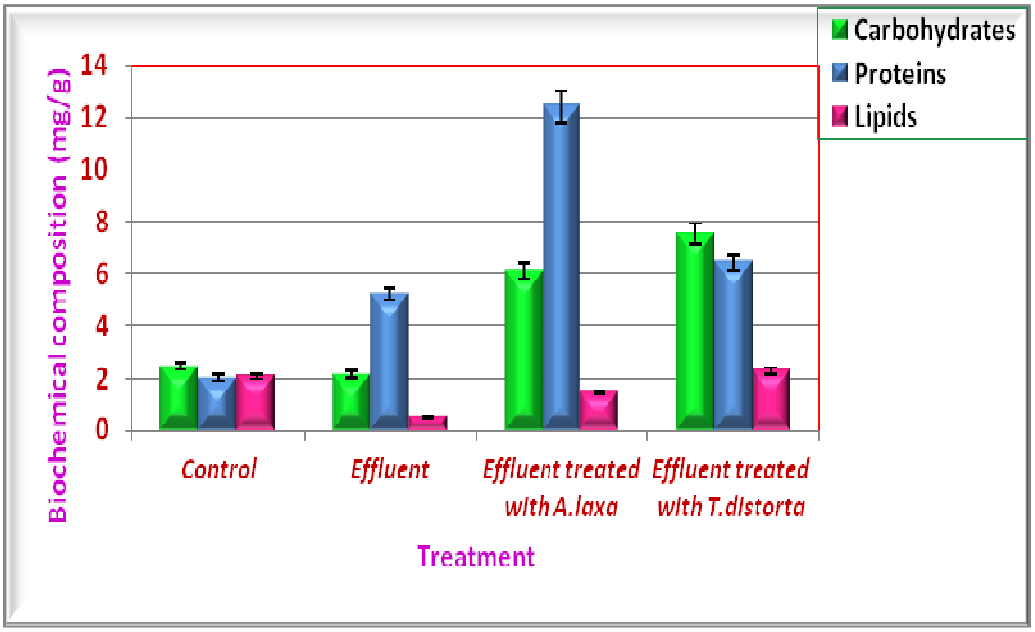


Fig.32 Biochemical composition of fish *H. molitrix* untreated and treated with Dairy effluent.