



Heavy Metals in Food Industry by Bioremediation

electroplating elements. Saccharides including glucose, sucrose, and fructose are found in the yeast derived from the fermentation industry and are thought to be aordable and efficient sources for eliminating pollutants. Yeast cells treated with glucose benefit from a sufficient energy source that enables them to absorb significantly more metals from the solution. When yeast cells were exposed to certain organic solvents, metal absorption increased. The yeast cells were treated with tetrahydrofuran, acetone, acetonitrile, dimethyl sulfoxide, and ethanol as organic solvents. It is believed that the organic solvents will rupture the yeast membrane and expose. Organic solvents promote metal uptake by decreasing the positive charge at the cationic site of yeast cell walls and affecting the permeability of the cell walls. Anions and cations have an impact on metal buildup, according to some research findings.