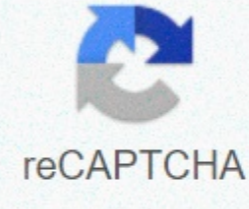




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US20140323356;2014.Page 2 Type Growth Characteristics Habitat Acidophile Low pH (&lt; 2) Thermal sulfur springs, waste treatment plants, and mine drainage alkaline high pH (&gt; 10) soda lakes, alkaline hot springs, deserts, mining waste halofill high concentration salt lakes (2-5 M NaCl) salt lakes, coastal lagoons, saltwater soil metallophyll high concentration heavy metals (Cu, Cd, As, Zn) deep sea or land hydrophile source and metal treatment plant piezophyll or barophil high hydration electrostatic pressureSeafloor and deep-sea thermoporous cyclophyll low temperature (&lt;15°C) Arctic and Antarctic soils and waters, alpine soils, deep seawater, glacial radiation high levels of ionizing radiation (&gt;25 kGy);5 Gy is lethal to the human ground surface. Upper layer of the sea, nuclear waste thermophile high temperature thermophil (60-80°C) thermal sphere (&gt;80°C) deep sea or shallow hydrothermal vents, hot springs, geysers, volcanoes, coal reject piles, industrial hot water system Xerophiles low water activity (aws0.8) desert and salt beds

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