

B	I	N	G	O
pH above 8	1 endospore	Dormant structure in cell	Spiral shaped bacteria	Nonpathogenic
Antarctica	Yellowstone hot springs	Rod shaped bacteria	121 deg. C at 15psi for 15 min	Thick cell wall
pH below 6	4 endospores	FREE	Pathogenic	High in heavy metals
Anaerobic	Inner cell membrane	Steam sterilization	Na concentration above 7%	Soil
Survival in harsh environment	High in heavy metals	Heat loving	Oil wells	Aerobic

B	I	N	G	O
Pathogenic	Nonpathogenic	4 endospores	Thick cell wall	Aerobic
Steam sterilization	High in heavy metals	Inner cell membrane	Yellowstone hot springs	121 deg. C at 15psi for 15 min
pH below 6	Spiral shaped bacteria	FREE	Oil wells	Antarctica
Dormant structure in cell	Rod shaped bacteria	Survival in harsh environment	Anaerobic	Soil
1 endospore	pH above 8	pH of 6-8	Denatures proteins	Heat loving

B	I	N	G	O
Pathogenic	Antarctica	Soil	Denatures proteins	121 deg. C at 15psi for 15 min
1 endospore	pH of 6-8	Dormant structure in cell	pH below 6	Anaerobic
Yellowstone hot springs	Survival in harsh environment	FREE	Na concentration above 7%	Spiral shaped bacteria
Aerobic	Oil wells	Inner cell membrane	High in heavy metals	4 endospores
Thick cell wall	Nonpathogenic	Heat loving	Rod shaped bacteria	pH above 8