

B	I	N	G	O
survival in harsh environment	1 endospore	aerobic	pathogenic	inner all membrane
Antarctica	steam sterilization	pH below 6	121 degrees @ 15psi for 15min	spiral
thick cell wall	4 endospores	FREE	oil wells	dormant structures in cells
6-8 pH	heat loving	rod shaped bacteria	high in heavy metals	pH below 8
soil	denatures proteins	anaerobic	non pathogenic	55-65 degrees C

B	I	N	G	O
oil wells	inner all membrane	4 endospores	spiral	55-65 degrees C
rod shaped bacteria	dormant structures in cells	heat loving	steam sterilization	121 degrees @ 15psi for 15min
thick cell wall	pathogenic	FREE	non pathogenic	Antarctica
aerobic	pH below 6	soil	6-8 pH	pH below 8
1 endospore	survival in harsh environment	yellowstone hot springs	Na concentration above 7%	anaerobic

B	I	N	G	O
oil wells	Antarctica	pH below 8	Na concentration above 7%	121 degrees @ 15psi for 15min
1 endospore	yellowstone hot springs	aerobic	thick cell wall	6-8 pH
steam sterilization	soil	FREE	high in heavy metals	pathogenic
55-65 degrees C	non pathogenic	heat loving	dormant structures in cells	4 endospores
spiral	inner all membrane	anaerobic	pH below 6	survival in harsh environment