

B	I	N	G	O
survival in harsh structures	1 endospore	Rod shaped bacteria	pH below 6	high in heavy metals
Antarctica	steam sterilization	oil wells	121 degrees C @15psi for 15min	spiral
thick cell wall	4 endospores	FREE	non pathogenic	denatures protein
6-8 pH	dormant structures in cell	pathogenic	heat loving	pH above 8
soil	anaerobic	aerobic	inner cell membrane	55-66 degrees C

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non pathogenic	high in heavy metals	4 endospores	spiral	55-66 degrees C
pathogenic	denatures protein	dormant structures in cell	steam sterilization	121 degrees C @15psi for 15min
thick cell wall	pH below 6	FREE	inner cell membrane	Antarctica
Rod shaped bacteria	oil wells	soil	6-8 pH	pH above 8
1 endospore	survival in harsh structures	yellowstone hot springs	Na concentration above 7%	aerobic

B	I	N	G	O
non pathogenic	Antarctica	pH above 8	Na concentration above 7%	121 degrees C @15psi for 15min
1 endospore	yellowstone hot springs	Rod shaped bacteria	thick cell wall	6-8 pH
steam sterilization	soil	FREE	heat loving	pH below 6
55-66 degrees C	inner cell membrane	dormant structures in cell	denatures protein	4 endospores
spiral	high in heavy metals	aerobic	oil wells	survival in harsh structures