

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

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non pathogenic	high in heavy metals	4 endospores	soil	55-65 degrees C
pathogenic	denatures proteins	dormant structures in cells	steam sterilization	121 degrees C@ 15psi for 15min
thick cell wall	pH below 8	FREE	inner cell membrane	Antarctica
Spiral	oil wells	rod shaped bacteria	6-8 pH	pH below 6
1 endospore	survival in harsh environment	yellowstone hot springs	Na concentration above 7%	aerobics

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