

TABLE 6.7. Examples of bacterial and archaeal energy and carbon metabolism

Type of Metabolism	Energy Source	Electron Donor	Carbon Source
Photolithoautotrophs	Light	Misc.	CO ₂
Photolithoheterotrophs	Light	Sulfide	Acetate, fumarate
Photoorganoautotrophs	Light	Lactate	CO ₂
Photoorganoheterotrophs	Light	Misc.	Misc.
Chemolithoautotrophs	H ₂ S, CH ₄ , H ₂ , NH ₄ ⁺ , NO ₂ ⁻	H ₂ S, H ₂	CO ₂
Chemolithoheterotrophs	H ₂	H ₂ , acetate	Acetate
Chemoorganoautotrophs	Sugars	Misc.	Misc.
Chemoorganoheterotrophs	Sugars	Sugars	Sugars