

Substances extracted from a terrestrial cyanobacterium, *Nostoc* sp. HK-01, related to tolerance to ultraviolet radiation (254 nm)

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Cyanobacteria are photosynthetic organisms. They contributed to increasing the concentration of oxidation of ancient atmosphere in Earth. *Nostoc* sp. HK-01 is a candidate organism considered for introduction into the extraterrestrial environment. Recently, we extracted several functional substances from this strain. These substances might be related to UVC tolerance of the strain. We will show the characteristics and occurrence of the substances during their life cycle, using the terrestrial cyanobacterium, *Nostoc* sp. HK-01.

Keywords: terrestrial cyanobacteria, ultraviolet radiation , high tolerant to space environment