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Title: Antimicrosporidian activity of sulphated polysaccharides from algae and their potential to control honeybee nose mosis

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► Sulphated polysaccharides were extracted from *Porphyridium* sp. ► Two polysaccharides decreased the growth of *Encephalitozoon cuniculi in vitro*. ► Honeybees were infected by the microsporidia *Nosema ceranae*. ► The polysaccharide from *P. marinum* decreased the infected-honeybee mortality. ► The polysaccharide from *P. marinum* reduced the parasite load.

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