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1 **Isolation and structural characterization of chondroitin sulfate from bony fishes**

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5 **Highlights**

- 6 1. Chondroitin sulfate (CS) was purified from the bones of common fishes
- 7 2. The disulfated species $\Delta\text{Di}2,6\text{dis}$ was present in all CS in a range of 1.3÷10.5%
- 8 3. These disaccharides may be a useful marker to check the CS marine origin
- 9 4. Spiny dogfish may be an alternative source of CS extracted from endangered
- 10 shark
- 11 5. CS from bony fishes may be useful for scientific and pharmacological
- 12 applications

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