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Title: Effects of extraction methods on the antioxidant activities of polysaccharides obtained from *Flammulina velutipes*

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Highlights:

1. Four polysaccharides were extracted from *Flammulina velutipes*
2. Four extraction methods were optimized by orthogonal test
3. Preliminary structural characterizations were conducted of the four polysaccharides
4. Antioxidant activities of the four polysaccharides were investigated

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