Accepted Manuscript

Effect of a dual modification by hydroxypropylation and acid hydrolysis on the structure and rheological properties of potato starch

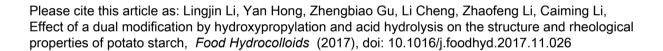
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PII: S0268-005X(17)31480-7

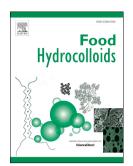
DOI: 10.1016/j.foodhyd.2017.11.026

Reference: FOOHYD 4151

To appear in: Food Hydrocolloids



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Highlights

- Dual-modified potato starch was prepared by acid hydrolysis and hydroxypropylation.
- Rheological analysis revealed various moduli and gelation temperatures.
- Medium molecular weight and low hydroxypropylation led to superior gelling ability.
- Dual-modified starch may be applied in the food and pharmaceutical industries.

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