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Title: Effect of lignin on water vapor barrier, mechanical, and structural properties of agar/lignin composite films

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1 **Highlights**

- 2 • Agar/lignin composite film was prepared using a solvent casting method.
- 3 • The effect of lignin concentration on film properties was evaluated.
- 4 • Lignin increased mechanical and water vapor barrier properties of the composite films.
- 5 • UV light transmission decreased with incorporation of lignin.

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