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Effects of Physicochemical Characteristics of Magnetically Recoverable Biocatalysts upon Fatty Acid Methyl Esters Synthesis from Oils

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Highlights

- L-PEI-MS and L-PAA-MS are reported as magnetically recoverable biocatalysts.
- Type and molecular weight of polymers are important for efficient FAMEs production.
- Hydrophobic PEI-MS enhances oil molecules around the immobilized lipase.
- PEI-MS limit deactivating effect of methanol on the immobilized lipase.
- The higher the molecular weight of PEI, the larger the FAMEs synthesis yield value.

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