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Engineered small intestinal system as an alternative to *In-situ* intestinal permeability model

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Highlights:

- This study reports an ‘engineered small intestinal system’.
- The system is proposed as an alternative to the *in-situ* intestinal permeability model.
- Permeability of two model compounds (lipophilic and hydrophilic) is demonstrated.
- The results are compared with the existing in-situ intestinal perfusion assay.