

## Accepted Manuscript

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PII: S0731-7085(18)31313-X  
 DOI: <https://doi.org/10.1016/j.jpba.2018.09.052>  
 Reference: PBA 12245

To appear in: *Journal of Pharmaceutical and Biomedical Analysis*

Received date: 2-6-2018

Revised date: 25-9-2018

Accepted date: 27-9-2018

Please cite this article as: Abbas Moussa B, Mahrouse MA, Fawzy MG, A validated HPLC-MS/MS method for simultaneous determination of linagliptin and metformin in spiked human plasma coupled with solid phase extraction: Application to a pharmacokinetic study in healthy volunteers, *Journal of Pharmaceutical and Biomedical Analysis* (2018), <https://doi.org/10.1016/j.jpba.2018.09.052>

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# A validated HPLC-MS/MS method for simultaneous determination of linagliptin and metformin in spiked human plasma coupled with solid phase extraction: Application to a pharmacokinetic study in healthy volunteers

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## Graphical abstract



## Highlights

- An HPLC-MS/MS method was developed for bioanalysis of linagliptin and metformin
- Challenge of drugs different polarities was overcome by solid phase extraction
- The method was validated following FDA validation guidelines
- Sensitivity, selectivity and overall analysis time promote pharmacokinetic study
- First pharmacokinetic study on volunteers with plasma concentration time curves

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