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Development and validation of a hydrophilic interaction liquid chromatography-tandem mass spectrometry method for the quantification of the antidiabetic drug metformin and six others pharmaceuticals in wastewater

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Highlights

- A HILIC method was developed to determine metformin in wastewater samples.
- Time and cost saving due to small-volume samples.
- Solid phase extraction at pH 3 was applied to high concentrated samples.
- Sample preparation at pH 10 lower the limit of quantification to 156 ng/L.
- Six additional pharmaceuticals could be determined with the same method.

ABSTRACT

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