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Title: Determination of thiopurine S-methyltransferase activity by hydrophilic interaction liquid chromatography hyphenated with mass spectrometry

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Highlights

- New HILIC-HPLC-MS method was developed for determination of TPMT activity
- HILIC-HPLC-MS combination was approved by excellent performance parameters
- HILIC-HPLC-MS was compared to traditional RP-HPLC-UV as well as advanced RP-HPLC-MS
- Conventional approaches were surpassed in terms of selectivity, LOD, analysis time
- HILIC-HPLC-MS is favorable for routine assay of 6-MMP/6-MP ratio in RBC lysates

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