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Title: Reverse transcriptase loop-mediated isothermal amplification for the detection of feline coronavirus

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**Highlights**

Feline coronavirus (FCoV) causes feline infectious peritonitis (FIP)

Repeated RT-PCR assays are necessary to identify FCoV shedders

The identification of FCoV genome may support a diagnosis of FIP

RT-LAMP assay for feline coronavirus was developed in this study

RT-LAMP can be used to confirm the infection but not to exclude it

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