



Figure 6: Analysis of nine commercial products by species-specific primer sets. (a) PEA; (b and e) PBT; (c and f) PSS; (d and g): PEC; M: Deoxyribonucleic acid marker; N: Negative control

CONCLUSION

In this study, a species-specific PCR-based technology was newly established for the identification of donkey, bovine, swine, and horse ingredients in commercial ACC and TCC products. It was found that skin of bovine and swine was used to make adulterated ACC products, while swine skin was used to make fake TCC products. Compared to the conventional DNA barcoding, this method was more convenient and time-saving as no sequencing procedure and it was applicable for adulterated glue products. The developed technology was significant from the viewpoint of public health and fair competition in market, and it could be further improved for authentication of Chinese patent medicine made from ACC and TCC.

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Conflicts of interest

There are no conflicts of interest.

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