ABSTRACT

INTRODUCTION

In the field of ForensicScience it is essential that from biologica stains, both the type of tissueand the individual who deposited the stain be identified. Recently, microRNAs (miRNA) have been suggestedas potential biomarkers for body fluid identification (Zubakov 2010). However, depending on the amount of biologica evidence left behind, if there are only trace amounts, miRNA analysiswill consume the sample and as a result eliminate the possibility of obtaining a DNA profile (Hanson, 2012). Therefore there is a great need for a method, which performs both RNA and DNA extraction simultaneously from one sample There are only a few methods currently offered for this purpose Therefore it is crucialthat these methods are tested extensively and compared to one another Recentresearchhas shown that microRNA(miRNA) shows great potential for the identification of body fluids in forensicallyrelevant samples, due to their small size, stability and robustness (Zubakov 2010). MiRNA does not degrade easily and can be analyzedmonths, and in some cases, years later (Haas 2013). However, it is crucial that we can extract both RNA and DNA from the one sample simultaneously, thereby allowing us to identify both the ZÁZaþþ ZÁZofšthe sample

CONCLUSIONS

REFERENCES