

## Investigator<sup>®</sup> Lyse&Spin Basket Kit

For reduced sample handling and complete nucleic acid recovery

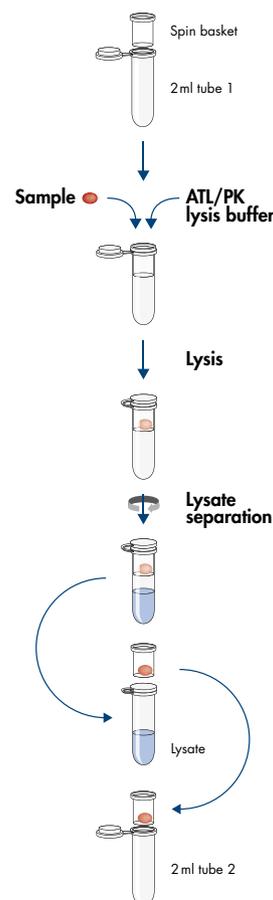
The Investigator Lyse&Spin Basket Kit is used for pretreatment of forensic samples in combination with manual and automated extraction kits, such as the EZ1<sup>®</sup> DNA Investigator Kit, the QIA Symphony<sup>®</sup> DNA Investigator Kit and/or the QIAamp<sup>®</sup> DNA Investigator Kit. It permits the combination of sample lysis and separation of solid sample substrates in one simple procedure. Due to its pre-assembled configuration, there is no need for tedious handling steps during sample transfer, resulting in increased process safety. The procedure can be used for swabs, pieces of fabric or leather, paper, cigarette butts, chewing gum, small tapes or other sample types.

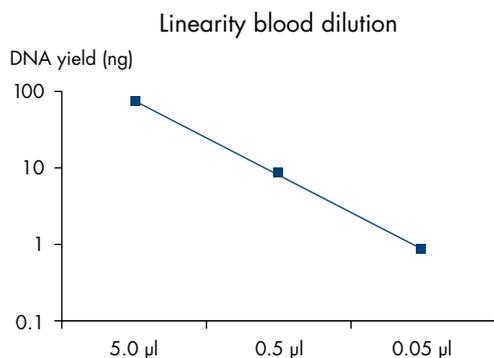
### The Lyse&Spin Kit provides:

- A streamlined front-end solution for pretreatment of forensic samples
- Lysis at 56°C for up to 16 hours without leaking
- Filtration of lysates and the retention of particles >10 µm
- Two kit configurations (single blistered or bulk), both ethylenoxide-treated post-production

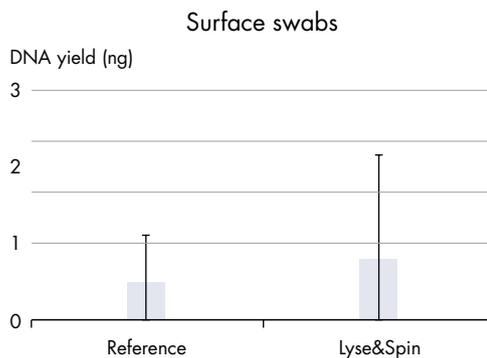
Benefit from increased DNA yield and higher sensitivity due to optimal lysate recovery, and experience improved process safety due to minimal sample handling. The simple protocol is illustrated in Figure 1 and DNA yields, following utilization of the Investigator Lyse&Spin Basket Kit, are shown in Figures 2 and 3.

**Figure 1. The Lyse&Spin Basket procedure.** The basket retains the lysis buffer during the lysis step of the forensic sample. Upon centrifugation using an ordinary bench-top centrifugation system, holes in the bottom of the basket open up and let the sample lysate pass through the basket. The lysate containing the nucleic acids is efficiently recovered and collected in the provided 2 ml collection tube, while the solid particles remain in the basket. Used baskets with solid sample substrates can be optionally stored in the 2nd collection tube provided with cat. no. 19597.





**Figure 2. Dilution series of blood on swab.** Lysis and filtration using the Investigator Lyse&Spin Basket Kit is shown. Extraction was carried out on the QIAAsymphony SP with the Investigator Casework 500 ADV protocol with 50 µl elutions. The Investigator Quantiplex™ Kit was utilized for quantification of human DNA.



**Figure 3. Comparison of DNA yield.** Comparison data with standard lysis and filtration using the QIAshredder (reference) and lysis and filtration using the Investigator Lyse&Spin Basket Kit (Lyse&Spin) is shown. Surface swabs taken from different computer keyboards were analyzed. Extraction was carried out utilizing the QIAAsymphony SP with the Investigator Casework 500 ADV protocol, with 50 µl elutions. The Investigator Quantiplex Kit was utilized for quantification of human DNA. Deviations due to donor-to-donor and sample-to-sample variation (n=12).

## Ordering Information

Product	Contents	Cat. no.
Investigator Lyse&Spin Basket Kit (50)	For 50 preps: 50 single blistered pouches containing 50 baskets and 100 collection tubes	19597
Investigator Lyse&Spin Basket Kit (250)	For 250 preps: 5 x 50 QIAGEN Lyse&Spin baskets and 5 x 50 collection tubes	19598

For up-to-date licensing information and product-specific disclaimers, see the respective QIAGEN kit handbook or user manual. QIAGEN kit handbooks and user manuals are available at [www.qiagen.com](http://www.qiagen.com) or can be requested from QIAGEN Technical Services or your local distributor.

Learn more at [www.qiagen.com/investigatorlyseandspin](http://www.qiagen.com/investigatorlyseandspin).

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