

NAO®Basket

For rapid and
efficient DNA recovery





NAO® (Nucleic Acid Optimizer) Basket is a semi-permeable system designed for optimizing the DNA recovery yield from swab samples, card punches, or other specimens during the lysing step.



Lyse & centrifuge in the basket

The innovative product design allows the passage of macromolecules (DNA, RNA, proteins) from samples into the tube using a tight leak-proof design that can endure vortexing, centrifugation, and various storage conditions.



Forensic DNA grade

NAO®Basket ISO 18385:2016 compliance minimizes the risk of detectable human nuclear DNA to fit the needs of the global forensic community.



Increase yield, reduce contamination

NAO®Basket significantly optimizes the steps of sample processing and reduces the risk of sample contamination. It allows eluting samples collected from the swab tip – eg. adding a lysis buffer – directly in the 1.5 or 2 ml processing tube.



Compatibility

NAO®Basket is compatible with the main Nucleic Extraction kits on the market.



Fields of application

Preanalytics made different



Genetics & microbiome



Forensics

The perfect match

FLOQSwabs®

The combination of NAO® Basket and FLOQSwabs® provides unparalleled DNA recovery of the sample collected¹, particularly critical for crime scene evidence testing. The 20 mm breaking point of the 4N6FLOQSwabs® – Copan FLOQSwabs® for forensic applications – is compatible with NAO® Basket.



Laboratory

Handling and processing

NAO® Basket retains the lysis buffer during the lysis step of the sample. Upon centrifugation on a high-speed centrifuge, valves in the bottom of the NAO® Basket open and allow the sample lysate to pass through. The lysate containing the nucleic acids is efficiently recovered^{1,2} and collected in the provided collection tube, whereas the substrate remains inside the NAO® Basket.

Ordering information

NAO® Basket is available in several formats as single pouches or bulk packages, with 1,5 ml or 2 ml vials. Choose the proper one according to your needs.

Cat N.	Description	Pack size	Sample*
3002C	NAO®Basket 	In bluk bag Package: 6x250 pcs	NA
3102CS01	NAO®Basket + 2ml cuvette 	In peelpouch Package: 6x100 pcs	NA
4103CS01	NAO®Basket+ 2ml cuvette + 4N6FLOQSwabs® Genetics Regular Size Tip 	In peelpouch Package: 6x100 pcs	Buccal Cells, Saliva, Blood, Blood Stains, Others
30U013D01	NAO®Basket + 1.5ml cuvette 	In peelpouch Package: 6x100 pcs	NA

*Suggested table. Please refer to your GLP procedures to choose the most appropriate device for the specific sampling site

Scientific references

All the studies we cited in this product focus are listed here.

1. Bruijns, B.B., Tiggelaar, R.M. and Gardeniers, H. The Extraction and Recovery Efficiency of Pure DNA for Different Types of Swabs. *J Forensic Sci*, 63: 1492-1499, 2018.
2. Tessitore, M.V., Sottini, A., Roccaro, A.M. et al. Detection of newly produced T and B lymphocytes by digital PCR in blood stored dry on nylon flocked swabs. *J Transl Med* 15, 70, 2017.

Notes





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