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€229.00

- 200 reactions
- [Comes with the new eDNA qPCR master mix for environmental samples](#)

Title	Range	Discount
regular price	0 - 4	0%
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bulk discount	10 - 19	20%

SKU: SYL116 Categories: [Mammals](#), [Protected and rare species](#), [qPCR kits](#)

Description **Additional information**

The *Neomys fodiens* detection kit comes with then new **eDNA qPCR master mix**. This qPCR master mix provides excellent performance for sensitive, robust and accurate qPCR detection assay. The eDNA qPCR master mix is highly resistant to inhibitory factors, such as humic acids present in environmental samples. This kit contains primers and a probe to detect a highly specific region on the mitochondrial DNA of the species *Neomys fodiens*.



Eurasian water shrew by Rudmer Zwerver (Saxifraga)

Detection as a service:

We offer the detection of *Neomys fodiens* also as a service. See our eDNA service website (in [English](#) or in [Dutch](#)) or [contact us](#) for more information about san

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Kit properties:

The *Neomys fodiens* detection kit has:

- **High resistance to inhibiting factors.** Environmental DNA (eDNA) extracts contain often multiple qPCR inhibiting factors. Normal qPCR master mixes are sensitive to these substances.
- **Strong fluorescence signal with low background noise.** Isolated environmental samples contain residues of naturally occurring auto fluoresce substances that will interfere with the measurements. Environmental samples needs a strong fluorescence signal from the assay in order not to experience background interference.
- **Highest possible sensitivity** (1 DNA copy per reaction). Environmental water samples may contain very low amounts of target DNA.
- **100% specificity.** Isolated DNA from environmental samples contains billions of DNA fragments from bacteria, protozoa, plants, animals, etc. Not only animals from the same order (fish, amphibians, reptiles, mammals, etc.) must be taken in account during primer/probe design, but all known DNA sequences must be checked for nonspecific binding of the primers and probe.

The full method validation report can be found below under “**Relevant documents**”

The kit has been developed and optimized for use on eDNA isolates purified using the Sylphium Molecular Ecology eDNA Isolation Kit (#SYL002), although other eDNA isolation methods/kits can be used as well. If you need more information on using the obtained isolates from other methods/kits to get reliable results, send an e-mail to info@sylphium.com.

Kit contents:

- Positive control (cloned *Neomys fodiens* DNA)
- Primer/probe mix (10x) for detection of *Neomys fodiens* (FAM dye)
- eDNA qPCR master mix:
 - eTaq DNA polymerase
 - eTaq qPCR mix
 - PCR water

The kit contains all materials for 200 reactions of 25µl.

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