

Januar 2014

# STRATEC Molecular - News

The Universal Kit Product Line:

Superior flexibility with improved sample and cost management



STRATEC Molecular is launching the next product in the latest series of extraction kits for simultaneous extraction of genomic DNA, bacterial DNA, viral DNA and viral RNA from clinical samples.

- Introduction of the Invisorb® Spin Universal Kit
- Product Overview on kits for use with KingFisher® instruments

Diagnostic Use

## Universal Kit for manual use on a centrifuge Invisorb® Spin Universal Kit

With the introduction of the innovative, flexible and cost efficient Universal Kit Panel, STRATEC Molecular has expanded its nucleic acid extraction product line for diagnostic applications for infectious and genetic diseases. These unique products generate high quality nucleic acids from a wide range of different samples (e.g. blood, serum, feces, sputum). Now STRATEC Molecular presents the new manual spin based version of the universal kit. The Invisorb® Spin Universal Kit contains all components needed for nucleic acid extraction of 50 or 250 samples.

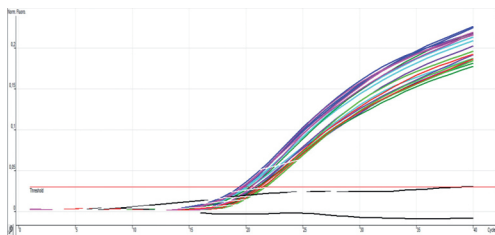
**Product specification:** Kit for simultaneous isolation of genomic DNA, bacterial DNA, viral DNA & viral RNA

**Amount of starting material:** 200 µl, (100 µl for whole blood)

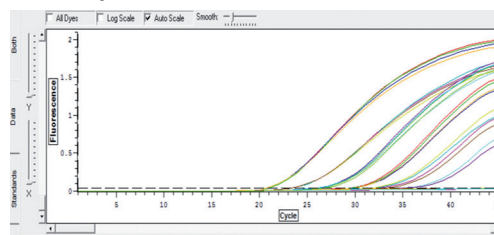
**Starting material:** cell free body fluids, (serum, plasma, CSF, urine), whole blood (stabilized with EDTA or Citrate, no Heparine), rinsed liquid of swabs or transport media, supernatant from stool suspension, sputum, BAL, sperms or semen, amniotic fluid, supernatant from organ abrasion, bacterial or viral cultures

In the last Newsletter Strattec presented the InviMag® Universal Kits for use on InviGenius® and KingFisher® Flex 96 with validation data from human diagnostic applications, like pathogen detection, or detection of genetic diseases /SNP's. These kits can also be used for veterinary applications including pathogen detection or detection of genetic factors e.g. as selection criteria for animal breeding. For example more than 100 samples from animals were tested using the Invisorb® Spin Universal Kit for validation at Anicon Labor GmbH.

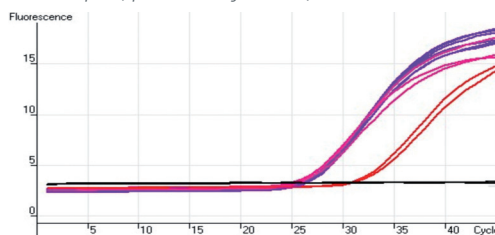
*GAPDH - PCR result from 6 different human blood samples*



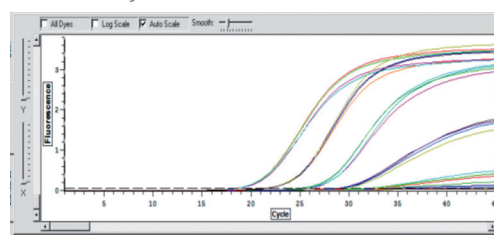
*Ornithobacterium Rhinotracheale from bacterial culture: PCR result of a dilution series*



*Influenza A RT-PCR result from human blood samples (spiked with Influenza A)*



*Avian Influenza A Subtype H9N2 from amniotic fluid: RT-PCR result of a dilution series*



The sensitivity of the Invisorb® Spin Universal Kit for different applications from animal or human samples was comparable or better than the sensitivity obtained with specific kits from other suppliers. The innovative kit chemistry provides maximum efficiency and equivalent sensitivity while maintaining flexibility in the choice of starting material.

Please ask for your **FREE TEST KIT** (5 preps)  
Diagnostic Use and Research Use

Diagnostic and Research Use

## Overview on the InviMag® Kits for use on KingFisher instruments

STRATEC Molecular offers a broad panel of high quality InviMag® kits in combination with different KingFisher instruments: KingFisher® DUO\*, KingFisher® mL, KingFisher® Flex96.

| InviMag®            | Validated with KF |    |        | Starting Material                  |   |  |                                     |                             |                                      |   |                    |               |
|---------------------|-------------------|----|--------|------------------------------------|---|--|-------------------------------------|-----------------------------|--------------------------------------|---|--------------------|---------------|
|                     | DUO               | ml | Flex96 | blood (EDTA, Citrate, no Heparine) | serum, urine, plasma, cell free body fluids | rinsed liquid from swab, transport media | super-natant from stool suspensions | sputum, amniotic fluid, BAL | tissue, food of animal origin, cells | seeds, plant material, food of plant origin | bacterial cultures | stool samples |
| Blood Mini Kit      | x                 | x  | x      | x                                  |   | x  |                                     |                             | x                                    |   |                    |               |
| Tissue Mini Kit     |                   |    | x      |                                    |   |  |                                     |                             | x                                    |   |                    |               |
| Plant DNA Mini Kit  |                   | x  | x      |                                    |   |  |                                     |                             |                                      | x   |                    |               |
| Bacteria Kit        |                   | x  | x      |                                    | x   | x  |                                     | x                           | x                                    | x   | x                  |               |
| Stool DNA Mini Kit  |                   |    | x      |                                    |   |  | x                                   |                             |                                      |   | x                  | x             |
| Virus DNA/RNA Kit*  |                   | x  | x      | x                                  | x   | x  | x                                   | x                           | x                                    |   |                    | x             |
| Pathogen Kit*       |                   | x  | x      | x                                  | x   | x  | x                                   | x                           | x                                    |   | x                  | x             |
| Universal Kit*      | x                 |    | x      | x                                  | x   | x  | x                                   | x                           | x                                    |   | x                  | x             |
| Virus DNA Mini Kit  |                   | x  | x      | x                                  | x   | x  |                                     | x                           | x                                    |   |                    |               |
| Virus RNA Mini Kit* |                   | x  | x      |                                    | x   | x  | x                                   | x                           | x                                    |   |                    | x             |
| Universal RNA Kit*  |                   |    | x      |                                    |   |  |                                     |                             | x                                    |   |                    |               |

The **InviMag® technology** combines the advantages of innovative purification technologies like non-chaotropic **Invisorb®**, **RTP®** and **PSP®** with the easy handling of magnetic particles for a high efficient purification of DNA or RNA. The high-performance paramagnetic **InviMag® beads** with a uniform size distribution, good suspension stability and controlled surface feature various functionalities and accommodate a wide range sample types.

Therefore high-quality genomic DNA, total RNA, pathogen DNA and/or RNA from a wide range of sample types can be isolated. Depending on the workstation 15, 24 or 96 samples can be processed in parallel per run. The **InviMag® kits** provide all the necessary reagents and plastic ware for sample preparation.

### Advantages:

- high-speed semi - automated system
- cross contamination free process
- ready-made and customized purification protocols
- purification of high-quality, ready to use nucleic acids for sensitive downstream applications
- no clogging – difficult materials can be used, like seeds

\*) all kits can be adapted to the KingFisher Duo on request



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