

STATONAT[®] *line*

Stabilized Amplification Technology



SIMPLE ROBUST FLEXIBLE REAL-TIME PCR ASSAYS



Virology



Respiratory
infections



Parasitology



Healthcare
Associated
Infections

SENTINEL
DIAGNOSTICS

STAT-NAT[®]: molecular diagnostics made easy

Polymerase Chain Reaction (PCR) is one of the most used methods in the molecular laboratories to detect infections in human patients. PCR workflow can be labor intensive, time consuming and prone to errors, especially when many samples and different parameters should be analyzed simultaneously. Sentinel Diagnostics developed STAT-NAT[®] assays for the qualitative and quantitative detection of infections in human samples.

STAT-NAT[®] is:

SIMPLE

- reagents are stored at **room temperature**
- assays have the **same reaction protocol** and use the **same extraction kit**

ROBUST

- **no need to freeze and thaw** reagents
- makes assay more **robust**
- **automation compatibility** increases the reproducibility

FLEXIBLE

- **3 different formats available** for different laboratory requirements

STAT-NAT[®] assays are available for the following areas:



VIROLOGY



RESPIRATORY
INFECTIONS



PARASITOLOGY



HEALTHCARE
ASSOCIATED INFECTIONS

STAT-NAT[®]: two types of workflow

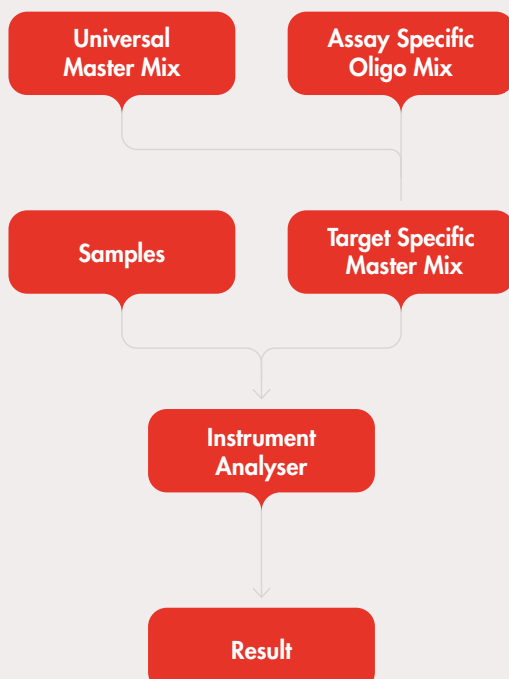
STAT-NAT[®] kits are available in 2 workflows: **OLIGO MIX** and **ALL-IN-ONE**.

In the **OLIGO MIX** workflow, a universal master mix is combined with a specific oligo mix set to set up the PCR assay.

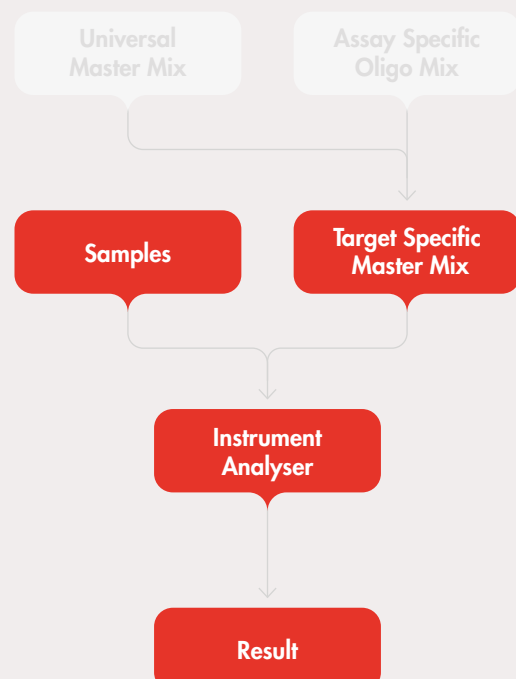
In the **ALL-IN-ONE** workflow, a specific master mix, containing all the components required to perform the PCR assay, is supplied.

In both cases, the sample is added to the PCR set up to run the reaction on the proper instrument.

Oligo Mix Workflow



All-in-one Workflow



STAT-NAT[®] line

Three product lines of STAT-NAT[®] kits are available:



STAT-NAT[®] for manual use

STAT-NAT[®] kits are designed for the **manual use**. They are useful for low throughput requirements. Kits are available in the All-in-one format.

Each kit consists of:

- 6x8-well **strips pre-filled** with complete master mix, that include both enzymes, dNTPs, MgCl₂, target specific oligos and primers to perform the reaction
- **Buffers**
- Internal **control** and, for the quantitative assays, **calibrators** for the standard curve

Compatible with **STAT-NAT[®] Pathomag** extraction kit. Kits are **validated** on Bio-Rad CFX96[™] DX and Thermo Fisher QuantStudio[™] 5DX.

*CFX96[™] DX is a trademark of Bio-Rad Laboratories, Inc.

**QuantStudio[™] 5DX is a trademark of Thermo Fisher Scientific, Inc.



Stability at room temperature

- Simplified shipment and storage
- Increased robustness of assays



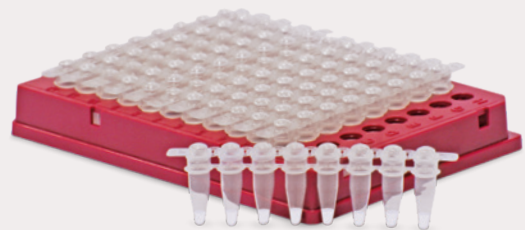
Prefilled tubes

- Simplified assay set up
- Increased reproducibility



Compatible with third party platforms

- Validated on Bio-Rad CFX96[™] DX* and Thermo Fisher QuantStudio[™] 5DX**



STAT-NAT[®] Flex for semi-automated use

STAT-NAT[®] Flex kits are designed for the semi-automated use. They are useful for low to medium throughput requirements. Kits are available both in the All-in-one and Oligo Mix format.

Each kit consists of:

- Amber glass vials of **freeze-dried master mix** (target specific or universal) and **oligo mix** (to be combined with universal master mix)
- **Buffers**
- Internal and positive **controls and calibrators** for the standard curve (provided separately)

Validated with **SENTiNAT[®] X48 Pathomag Extraction kit**.



Stability at room temperature

- Simplified shipment and storage
- Increased robustness of assays



Flexibility

- Optimized reagents consumption



Multiparametric analysis in the same run

- Common protocol among different targets
- Same thermal profile among different targets



STAT-NAT[®] SN200 for fully automated use

STAT-NAT[®] SN200 kits are designed to be used with SENTiNAT[®] 200 fully automated, sample-to-results system. They are useful for medium to high throughput requirements. Kits are available both in the All-in-one and Oligo Mix format.

Each kit consists of:

- 6 x 16-well miniplates of **freeze-dried master mix** (target specific or universal) or **3 x oligo mix** vials (to be combined with DNA master mix)
- **Buffers**
- Internal and positive **controls** and, for the quantitative assays, **calibrators** for the standard curve (provided separately)



Stability at room temperature

- Simplified shipment and storage
- Increased robustness of assays



Multiparametric analysis in the same run

- Common PCR protocol and extraction kit for different targets
- Same thermal profile among different targets



Automated complete workflow

- Barcoded reagents and consumables for a complete traceability
- Pre-filled miniplates reduce errors and free up operator time



Summary table

STATiNAT®

Manual use

Low throughput solution



All-in-one

Oligo Mix

CMV
EBV
BKV
Adenovirus
HHV-6
HSV-1
HSV-2
SARS-CoV-2***
PLURI**
VRE
Leishmania spp°

HHV-7
HHV-8
Parvo B19
VZV
JCV

**STATiNAT®
FLEX**

Semi-automated use

Low to medium throughput solution



All-in-one

Oligo Mix

EBV
BKV
Adenovirus
HHV-6
HSV-1 and 2
SARS-CoV-2***
PLURI**

HHV-7
HHV-8
Parvo B19
VZV
JCV

**STATiNAT®
SN200**

Fully automated use

Mid to High throughput solution

Designed for SENTiNAT® 200



All-in-one

Oligo Mix

CMV*
EBV
BKV
Adenovirus
HHV-6
HSV-1 and 2
SARS-CoV-2
PLURI

HHV-7
HHV-8
Parvo B19
VZV
JCV

Extraction Kit 1N1009

*IVDR certified **Extraction kit 1N1001 °Validated also with SENTiNAT® MICRO

Related products



**SENTiNAT®
MICRO**

PCR amplification
for manual workflow



**SENTiNAT®
200**

Sample to result platform
true walk-away system with
automatic result interpretation

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