



B) Questionnaire for clinical laboratories and facilities on

Nucleic acid tests (NAT) for diagnostics of patients with infectious diseases

1 Number of all analyses (including non-NATs) for diagnostics of infectious diseases

- < 100 / month 100 - 1000 / month > 1000 / month

2 Percentage of NATs used for diagnostics of infectious diseases

- < 10% < 25% < 50%
 < 75% > 75%

3 Target bacteria / viruses / other infectious agents

- M. tuberculosis MRSA SARS
 cytomegalovirus (CMV) adenovirus influenza A/B
 HIV Epstein-Barr Virus (EBV) HBV / HCV
 other pathogens, i.e. _____

4 Are rapid NATs used in your laboratory?

- yes no

5 Mainly used workflow for handling / sample preparation and NA amplification

- manual preparation (DNA extraction, purification, etc.) required before amplification
 complete tests, automated preparation and workflow in one / different instruments
 complete tests, all reagents included in cartridge

6 Type of sample

- blood / plasma swab bioptic tissue
 other samples, i.e. _____

7 Please indicate on which method the majority of NATs is based?

- temperature cycling PCR isothermal amplification techniques
 branched DNA

8 Typical turnaround time for the mainly used workflow (Sample preparation to result) ?

- < 15 min < 30 min < 1 h
 < 2 h > 2 h





9 For which target bacteria / viruses or other pathogens is an urgent need for rapid NATs?

Table with 2 columns: target organism, estimated incidence of tests. Rows include e.g. MRSA and blank lines for other organisms. Incidence options are < 10 / month, 10 - 50 / month, > 50 / month.

10 Are qualitative NATs sufficient or quantitative NATs required?

- qualitative test sufficient, quantitative test required, dependent on target organism

11 Requested turnaround time for rapid NATs

Table with 2 columns: target organism, turnaround time. Rows include e.g. MRSA and blank lines. Time options are < 2 min, < 5 min, < 10 min, < 15 min.

12 Requested detection limit or analytical sensitivity (in pure test samples)

Table with 2 columns: target organism, DNA / RNA copy number / mL. Rows include e.g. MRSA and blank lines. Copy number options range from < 10 to < 500.

13 Reasonable cost per NAT

Table with 2 columns: target organism, cost per NAT. Rows include e.g. MRSA and blank lines. Cost options range from < 0.5 € to 4€ - 6€.

14 Do you intend to purchase equipment for rapid NATs?

- no, next year, next three years, later

15 Laboratory / instrument / kit

laboratory name, mainly used instrument series / model, mainly used test kit / test kits, date

