

AdnaTest ProstateCancerDetect

AdnaTest ProstateCancerDetect Box 2 (Box 2 of cat. no. 396032), containing the AdnaTest PrimerMixes and AdnaTest Positive Controls, must be stored separately at -30 to -15°C . To prevent possible contamination and repeated temperature changes, aliquot the primer mix. The components must not be used beyond the expiration date.

Further information

- *AdnaTest ProstateCancerSelect and ProstateCancerDetect Handbook:*
www.qiagen.com/HB-2410
- Safety Data Sheets: www.qiagen.com/safety
- Technical assistance: toll-free 00800-22-44-6000 or support.qiagen.com

Protocol

1. Equilibrate AdnaTest Lysis/Binding Buffer and RNA Purification Buffers A and B to room temperature and place Tris-HCL Buffer on ice.
2. Wash 20 μl Oligo(dT)₂₅ Beads per sample twice with 20 μl AdnaTest Lysis/Binding Buffer per sample.
3. Add 20 μl washed Oligo(dT)₂₅ Beads to each sample.
4. Incubate for 10 min at room temperature under tilting and rotation at approximately 5 rpm.
5. Place the reaction tube in the AdnaMag-S and remove supernatant.
6. Wash beads with 2 x 100 μl RNA Purification Buffer A.
Important: To avoid any loss of beads, rinse lid and tube wall thoroughly.
7. Resuspend beads in 100 μl RNA Purification Buffer B and transfer into a new 1.5 ml tube (provided).
8. Wash beads with 1 x 100 μl RNA Purification Buffer B.
9. Wash beads with 1 x 100 μl ice cold Tris-HCL Buffer.
10. Resuspend beads in 14.75 μl RNase-free water.
11. Incubate for 5 min at 65°C and place on ice for at least 2 min.

12. Continue with reverse transcription; see Table 1 and Table 2.

Table 1. Reverse transcription reaction setup

Component	Volume
RT master mix	
10x Buffer RT	2.0 μ l
dNTP Mix (5 mM each dNTP)	2.0 μ l
RNase inhibitor, 40 U/ μ l (Promega)	0.25 μ l
Sensiscript Reverse Transcriptase	1.0 μ l
Template RNA*	
mRNA/bead complex or RNase-free water	14.75 μ l
Total volume	20.0 μl

* As RT control add 14.75 μ l of RNase-free water instead of mRNA/bead complex. The volume of the mRNA/bead complex may vary slightly. Always use the total volume of this in the reverse transcription reaction.

Table 2. Reverse transcription program

Step	Time	Temperature
Reverse transcription	60 min	37°C
Denaturation	5 min	93°C
Cooling	∞	4°C

13. Continue with multiplex PCR (Table 3 and Table 4) and singleplex PCR (Table 5 and Table 6) or store cDNA at -20°C for a maximum of 4 weeks.

Table 3. Preparation of the multiplex PCR (AdnaTest ProstateDetect)

Component	Volume
Multiplex PCR master mix	
HotStarTaq Master Mix	12.5 μ l
RNase-free water	4.5 μ l
PrimerMix ProstateDetect	4.0 μ l
cDNA or RT control or Negative control (RNase-free water) or Positive Control (C+) each:	4.0 μ l
Total volume	25.0 μl

Table 4. PCR cycling program (AdnaTest ProstateDetect)

	Temperature	Time
Initial activation step	95°C	15 min
3-step cycling (42 cycles)		
Denaturation:	94°C	30 s
Annealing:	61°C	30 s
Extension:	72°C	30 s
Number of cycles:	42	
Final extension:	72°C	10 min
Cool-down:	4°C	∞

Table 5. Preparation of the singleplex PCR (AdnaTest AR-Detect)

Component	Volume
Singleplex PCR master mix	
HotStarTaq Master Mix	12.5 µl
RNase-free water	4.5 µl
PrimerMix AR-Detect	4.0 µl
cDNA or RT control or Negative control (RNase-free water) or Positive Control (C+) each:	4.0 µl
Total volume	25.0 µl

Table 6. PCR cycling program (AdnaTest AR-Detect)

	Temperature	Time
Initial activation step	95°C	15 min
3-step cycling (35 cycles)		
Denaturation:	94°C	30 s
Annealing:	60°C	30 s
Extension:	72°C	60 s
Number of cycles:	35	
Final extension:	72°C	10 min
Cool-down:	4°C	∞

14. For fragment analysis, use an Agilent® 2100 Analyzer or alternative analysis system.

For evaluation of the results, please refer to the *AdnaTest ProstateCancerSelect and ProstateCancerDetect Handbook*.

IMPORTANT: If the protocol is not followed exactly, this may result in false-negative or false-positive results.



Scan QR code for handbook.

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