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HPV (High and Low Risk) TaqMan Lyophilized Probe/Primer and Control Set - 100 Reactions

Product # TM31510L

Component	Product # TM31510L (100 Reactions)	Volume upon Reconstitution
HPV (High and Low Risk) Primer & Probe Mix (Lyo)	1 (Lyophilized)	1 X 280 µL
HPV (High and Low Risk) Positive Control (Lyo)	1 (Lyophilized)	1 X 150 µL
Nuclease-Free Water	1 x 1.25 mL	N/A

Applications

Lyophilized TaqMan Probe/Primer and Control Set for HPV (High and Low Risk) detection using real-time PCR based on the use of TaqMan® technology.

Storage Conditions and Product Stability

- All kit components should be stored at -20°C upon arrival.
- Once reconstituted, repeated thawing and freezing (>2 times) of the Positive Control should be avoided, as this may affect the performance of the assay. If the reagents are to be used only intermittently, they should be frozen in aliquots.
- All kit components can be stored for 2 years after the date of production without showing any reduction in performance.

Precautions and Disclaimers

- Do not store the kit at room temperature. Store the kit at -20°C upon arrival. Please refer to **Storage Conditions and Product Stability** for further information.
- This product is designed for research purposes only. It is not intended for human or diagnostic use.

Customer-Supplied Reagents and Equipment

- Appropriate Real-Time PCR instrument with FAM and HEX filter channel.

Procedure

- **Reconstitution of HPV (High and Low Risk) Primer & Probe Mix (Lyo)**
  Note: **(Failure to dissolve the Primer & Probe Mix completely might affect the efficiency of the PCR assay).**
  1. Add **275 µL** Nuclease Free Water (provided in the kit) and let it rehydrate at room temperature for 5 minutes.
  2. Briefly vortex to dissolve the lyophilized Primer & Probe Mix.
  3. Once completely dissolved, briefly spin down the Primer & Probe Mix tube
  4. The Primer & Probe Mix is now ready to setup the PCR. Store the reconstituted Primer & Probe Mix at -20ºC if not used for PCR setup immediately.

- **Reconstitution of HPV (High and Low Risk) Positive Control (Lyo)**
  Note: **(Failure to dissolve the Positive Control completely might affect the efficiency of the PCR assay).**
  1. Add **120 µL** Nuclease Free Water (provided in the kit) and let it rehydrate at room temperature for 5 minutes.
  2. Use a pipette with a sterile tip to dissolve the lyophilized Positive Control.
  3. Once completely dissolved, briefly vortex and spin down the Positive Control tube
  4. The Positive Control is now ready to setup the PCR. Store the reconstituted Positive Control at -20ºC if not used for PCR setup immediately.

- **Recommended Reaction Conditions:**
  1. HPV (High and Low Risk) Primer Mix (2 µL per 20 µL PCR reaction)
  2. HPV (High and Low Risk) Positive Control (2-8 µL per 20 µL PCR reaction)

Description
The positive control is a synthetic oligonucleotide containing a partial HPV (High and Low Risk) gene fragment.

Table 1. Recommended TaqMan PCR Assay

PCR Cycle	Step	Temperature	Duration
Cycle 1	Step 1	95°C	3 min
Cycle 2 (40x)	Step 1	95°C	15 sec
	Step 2	60°C	30 sec

Table 2. Interpretation of Assay Results

FAM (Target detection)	HEX (PCR validation)	Result
+	+	Positive
-	+	Negative
-	-	PCR inhibited

Related Products	Product #
HPV (High and Low Risk) TaqMan PCR Lyophilized Kit	TM31550L
Plasma/Serum Cell-Free Circulating DNA Purification Micro Kit	55500
Plasma/Serum Cell-Free Circulating DNA Purification Mini Kit	55100
Plasma/Serum Cell-Free Circulating DNA Purification Midi Kit	55600
Plasma/Serum Cell-Free Circulating DNA Purification Maxi Kit	55800

Technical Support
Contact our Technical Support Team between the hours of 9:00 and 5:30 (Eastern Standard Time) at (905) 227-8848 or Toll Free at 1-866-667-4362.Technical support can also be obtained from our website or through email at techsupport@norgenbiotek.com.