

## HBV TaqMan Lyophilized Probe/Primer and Control Set - 100 Reactions

Product # TM29210L

Component	Product # TM29210L (100 Reactions)	Volume upon Reconstitution
HBV Primer & Probe Mix (Lyo)	1 (Lyophilized)	1 X 280 µL
HBV 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 Hepatitis B Virus (*HBV*) 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 HBV 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 -20°C if not used for PCR setup immediately.

- **Reconstitution of HBV 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 -20°C if not used for PCR setup immediately.

- **Recommended Reaction Conditions:**
  1. HBV Primer Mix (2 µL per 20 µL PCR reaction)
  2. HBV Positive Control (2-8 µL per 20 µL PCR reaction)

**Description**

The positive control is a synthetic oligonucleotide containing a partial HBV gene fragment.

**Table 1. Recommended TaqMan PCR Assay**

One Step RT-PCR Cycle	Step	Temperature	Duration
<i>Cycle 1</i>	Step 1	95°C	3 min
<i>Cycle 2 (40x)</i>	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 #
Hepatitis B Virus (HBV) TaqMan PCR Lyophilized Kit	TM29250L
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](mailto:techsupport@norgenbiotek.com).