

***Pneumocystis jirovecii* TaqMan Probe/Primer and Control Set - 100 Reactions**  
Product # TM42810

Component	Product # TM42810 (100 Reactions)
Pneumocystis jirovecii Primer & Probe Mix	1 x 280 µL
Pneumocystis jirovecii Positive Control	1 x 150 µL
Nuclease-Free Water	1 x 1.25 mL

**Applications**

TaqMan Probe/Primer and Control Set for *Pneumocystis jirovecii* detection using real-time PCR based on the use of TaqMan® technology.

**Storage Conditions and Product Stability**

Store all the components at -20°C upon arrival. All kit components can be stored for 2 years after the date of production without showing any reduction in performance.

**Precautions and Disclaimers**

This product is designed for research purposes only. It is not intended for human or diagnostic use.

**Customer-Supplied Reagents and Equipment**

- Real-Time PCR Instrument with multiple filter channel (FAM channel minimum)
- 2x PCR Master Mix
- **Optional** – Norgen’s TaqMan 2X PCR Master Mix can be used for PCR validation purposes (Please see related products table below)

**Procedures**

**Recommended Reaction Conditions:**

- Pneumocystis jirovecii Primer Mix (2 µL per 20 µL PCR reaction)
- Pneumocystis jirovecii Positive Control (2-8 µL per 20 µL PCR reaction)

**Description**

The positive control is a cloned partial *Pneumocystis jirovecii* DNA.

**Recommended TaqMan PCR Assay**

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

**Interpretation of Assay Results**

* FAM (Target detection)	** HEX/VIC (PCR validation-optional)	Result
+	+	<b>Positive</b>
-	+	<b>Negative</b>
-	-	<b>PCR inhibited</b>

\* FAM channel for target detection with a regular 2x PCR Master Mix

\*\* **Optional** - HEX or VIC channel is only required when Norgen’s TaqMan 2X PCR Master Mix (Cat.28340) is used for PCR validation purpose.

<b>Related Products</b>	<b>Product #</b>
Pneumocystis jirovecii TaqMan TaqMan RT-PCR Kit	TM42850
Blood DNA Isolation Mini Kit	46300, 46380
Plasma/Serum Cell-Free Circulating DNA Purification Mini Kit	55100
TaqMan 2X PCR Master Mix	28340
2X PCR Master Mix	28007, 28008, 28009

### **Technical Support**

Contact our Technical Support Team between the hours of 8:30 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).