



# Maxim Biotech, Inc.

Cat. No.: BP-60182  
Ureaplasma urealyticum Biotin Oligo Probe

**Form:** Biotin-oligodeoxyribonucleotide, 8 µg in 100 µl ddH<sub>2</sub>O

**Tm:** 72°C (Calculated according to the nearest neighborhood method)

**Purity:** The biotin conjugated probe was HPLC or PAGE purified and showed a single peak or band.

**Storage and Stability:** Recommend storage at -20 °C, stable for several years.

**Use:** The product is able to detect amplified target fragment of PCR primer pairs of **SP-10654** after *in vitro* PCR\* amplification process or target sequences directly through dot/slot, Southern hybridizations. This biotinylated Oligo-Probe may **NOT** be used as a primer.

## Suggested Protocols for Southern Hybridization:

**Note:** The membrane should not be allowed to dry out at any time during the procedures.

All reagents used during hybridization and detection should be warmed to room temperature before use.

1. Place the working DNA probes in an oven or heating block at 95 °C for 5-10 minutes to denature the DNA.
2. Ice quenches the denatured DNA Probes.
3. Mix the probes thoroughly with the Hybridization buffer at 0.1-1.0 µg/ml final probe concentrations. (See Maxim Southern hybridization kit, Cat. No. IH-60001, High Sensitive, DNA Probe Hybridization/Detection System -Southern Kit or IH-60002, Ultra-Sensitive, DNA Probe Hybridization/Detection System -Southern Kit for details).
4. Add the probe solutions to target the transferred membrane and incubate at 37-45 °C for 2 hours, or longer if desired.
5. Wash membrane with Post-hybridization wash buffer at 37 °C for 10 minutes, 2X, mild agitation.
6. Incubate membrane with the Mouse anti-biotin Ab at 37 °C for 60 minutes, mild agitation. (Skip for High-Sensitivity Kit)
7. Wash membrane with the Enhancer wash buffer for 5 minutes, 3X (Skip for High-Sensitive Kit)
8. Incubate membrane with the Biotinylated anti-mouse Ab at 37 °C for 30 minutes, mild agitation. (Skip for High-Sensitive Kit)
9. Wash membrane with the Enhancer wash buffer for 5 minutes, 3X (Skip for High-Sensitive Kit)
10. Incubate membrane with the Streptavidin-alkaline phosphatase conjugate at 37 °C for 20 minutes, mild agitation.
11. Wash membrane with the Enhancer wash buffer for 5 minutes, 3X (Skip for High-Sensitive Kit)
12. Add BCIP/NBT substrate at room temperature until the best signal to noise ratio is achieved.
13. Stop the reaction with excess ddH<sub>2</sub>O.

**Sequences:** (Alignment on database: **M36190**)

## References:

### Maxim in House

**Other related products:** Please use the Maxim web page (<http://www.maximbio.com/genesearch.htm>) to search for genomics and proteomics products related to genes available from Maxim.

PCR\*: The Polymerase Chain Reaction (PCR) process is covered by patents owned by Hoffmann-La Roche. Use of the PCR process requires a license. This product does not convey a license to use the PCR process.