

***Toxoplasma gondii*, RHΔku80Δhgx**

Catalog No. NR-15248

Product Description: *Toxoplasma gondii* (*T. gondii*), RHΔku80Δhgx is a double knockout generated in an RH strain background that lacks *ku80* and hypoxanthine xanthine guanine phosphoribosyltransferase (*hgx* or *hgxprt*) genes.

Lot¹: 58859444

Manufacturing Date: 07OCT2009

TEST	SPECIFICATIONS	RESULTS
Genotyping^{2,3} Water (negative control) KT-850 PCR with <i>T. gondii</i> , RH KT-850 PCR with <i>T. gondii</i> , RHΔku80Δhgx <i>ku80</i> PCR with <i>T. gondii</i> , RH <i>ku80</i> PCR with <i>T. gondii</i> , RHΔku80Δhgx	Negative Positive Positive Positive Negative	Negative Positive Positive Positive Negative
Viable Cell Count by Hemacytometry (pre-freeze)	> 10 ⁶ cells/mL	2.8 x 10 ⁷ cells/mL
Viability (post-freeze)⁴	Growth	Growth
Sterility (21-day incubation) Harpo's HTYE broth ⁵ , 37°C and 26°C, aerobic Trypticase soy broth, 37°C and 26°C, aerobic Sabouraud broth, 37°C and 26°C, aerobic Brain heart infusion, 37°C and 26°C, aerobic Sheep blood agar, 37°C, aerobic Sheep blood agar, 37°C, anaerobic Thioglycollate broth, 37°C, anaerobic	No growth No growth No growth No growth No growth No growth No growth No growth	No growth No growth No growth No growth No growth No growth No growth No growth
Mycoplasma Contamination DNA Detection by PCR	None detected	None detected

¹NR-15248 was produced by cultivation of the deposited material in human foreskin fibroblast cells (ATCC® CRL-1634™) with cell cultivation medium for parasites (ATCC medium 2222: adjusted to contain 10% heat-inactivated fetal bovine serum). The culture was propagated in 95% air, 5% CO₂ for 2 days at 37°C, until lysis of the host cell monolayer was reached.

²Primer sequences and annealing temperatures for KT-850 PCR may be obtained at the *Toxoplasma* Genome Map website ([Toxoplasma Genome Map](#)). Primer sequences and annealing temperatures for *ku80* PCR are available upon request.

³*T. gondii*, RH (ATCC® 50174™) was used for the positive control.

⁴Viable cells and signs of infection were seen after 2 days under cultivation conditions at 37°C.

⁵Atlas, Ronald M. *Handbook of Microbiological Media*. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

Date: March 31, 2010

Signature: *Heather Couch*

Title: Technical Manager, BEI Authentication or designee

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