Product Information

| Component Part Numbers: | 84267 Multiplex qPCR ToughMix low ROX, 1.25mL |

Quality Control Analysis and Specifications:

**Multiplex qPCR:** 4-color multiplex qPCR is performed in triplicate reactions on 10-fold serial dilutions of an equal copy mixture of four plasmid DNAs (1 x 10^7 copies to 10 copies). Cq standard curve analysis for each targeted sequence must have a coefficient of determination (r^2) ≥ 0.99 with a slope between −3.25 and −3.65. Control reactions lacking template DNA (NTC) must remain below fluorescence threshold through 45 PCR cycles.

**High Biased, Multiplex qPCR:** 4-color multiplex qPCR of a 10-fold serial dilution of a FAM probe specific plasmid DNA (1 x 10^7 copies to 10 copies) in a fixed background of 3 different plasmid targets at 1 x 10^8 copies (each) must have an LOD of 10 copies. Cq standard curve analysis must have a coefficient of determination (r^2) ≥ 0.990 with a slope between −3.25 and −3.70.

**DNase:** DNase activity must be below the detectable limits of 100 pg DNase I equivalent as assayed using a fluorogenic substrate following a 1 hour incubation at 37°C with each kit component: 2X qScript RT, 1X qScript Reaction Mix, or nuclease-free water and control buffer.

**RNase:** RNase activity must be below the detectable limits of 1 pg RNase A equivalent as assayed using a fluorogenic substrate following a 1 hour incubation at 37°C with each kit component: 2X qScript RT mix, 1X qScript Reaction Mix, or nuclease-free water and control buffer.

Limitations of Use

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This product was developed, manufactured, and sold for in vitro use only. The product is not suitable for administration to humans or animals. SDS sheets relevant to this product are available upon request.

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