Certificate of Analysis

Part Number:	**SF-UC-500, SF-UC-500-100**
Description:	**Sealing film, Optically ultra-clear for qPCR**
Lot Number:	**WO-11161**
Mfg Date:	**2021-08**

This certifies that the products listed above have been manufactured in accordance with established manufacturing guidelines and product specifications. The products conform to all Quality requirements and have undergone all standard quality requirement tests.

Component Materials:

This product does not contain the following materials as an intentionally added component.

- Natural Rubber Latex
- Dry Natural Rubber
- Animal Derivatives

Dimensional Information and Tolerances:

Criteria	Dimensional information / specification
L x W	5.500" +/- 0.015 X 3 .0833" +/- 0.015
End tabs	0.375" +/- 0.015
Perforations	0.4625" +/- 0.015 from edge of film
Corner radius	n/a

Construction:

Layer	Description
Top coat	n/a
Film	Optically clear polyolefin
Adhesive	Pressure-sensitive silicone
Release liner	White polyester

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Expiration Statement: It is best to use these products within two (2) years from the date of manufacture and maintain products at 70°F +/-10°; 50% RH+/- 10% to ensure the attributes contained within this certificate.

RNase/DNase Testing: This product has been tested and is free of any detectable RNase/DNase contamination.

Procedures

Products were tested for RNase activity by the following protocol:
An aliquot or extract of product(s) was incubated for 3 hours at 37˚C with 1µg of Poly A RNA as a substrate. Product was run along with negative, positive, and product positive controls. After incubation integrity of RNA was evaluated for degradation via gel electrophoresis.

Products were tested for DNase activity by the following protocol:
An aliquot or extract of product(s) was incubated for minimum of 3 hours at 37˚C, with up to 500ng of fragmented DNA as substrate. Product(s) were run along with negative, positive, and product positive controls. After incubation integrity of DNA substrate was evaluated via gel electrophoresis.

Product was tested for Human genomic DNA by the following procedure:
Portions of a sample extract were incubated with qPCR reagents and species-specific primers along with experimental controls. Reactions were run for 40 cycles and data was evaluated for presence of DNA.

Results

No visible degradation is present in the product samples. Therefore, the products can be considered RNase and DNase free. Additonally, Human DNA levels were found to be below specified levels, <0.1pg Human DNA and therefore product is Human DNA free.

This manufacturing lot has been sampled and tested in accordance with Standard Operating Procedures and has been released by Quality Assurance for the following characteristics:

Test/Procedure	Results
Visual attributes	Pass
Packaging	Pass
Dimensional	Pass

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