

Medical Materials & Technologies

**3M™ Microfluidic Diagnostic Tape
9795R Single-Sided Clear Delayed Tack Adhesive
Tape**



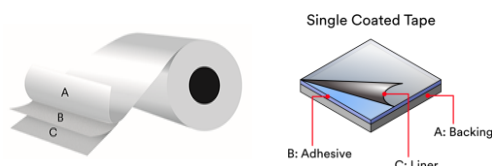
Product Description:

3M™ Microfluidic Diagnostic Tape 9795R, consists of a clear polypropylene film coated on one side with a pressure sensitive, delayed tack, silicone adhesive. The tape is supplied on a white fluoro-silicone coated polyester release liner. The product is designed for use in diagnostic medical devices such as test strip, lab-on-a-chip and PCR applications.

Features and Benefits:

- Delayed tack adhesive
- Adheres to a wide variety of substrates
- Transparent
- Low autofluorescence
- Delayed tack adhesive
- Non-hemolytic
- Non-toxic to mammalian cells
- Low extractables
- Designed for PCR use conditions

Composition:



A: Backing	2 mil (51 um) Polypropylene film
B: Adhesive	2 mil (51 um) Silicone adhesive
C: Liner	2 mil (51 um) White fluoro-silicone coated polyester release liner

Roll Description:

Roll Length	Maximum 750 yd (685 m) ± 2%
Roll Width	Maximum 48 in (122 cm) ± 0.06 in (1.52 mm)
Splices per Roll	Maximum 1 per 100 yd (91 m), 3 per 200 yd (183 m), 5 per 400 yd (366 m), 7 per 500 yd (457 m), 9 per 750 yd (685 m)

Note: Core material and diameter must be specified in special instructions of order set. Default: 3 in (76 mm) plastic core. Material options: fiber or plastic. Diameter options: 3 in (76 mm) or 6 in (152 mm).

Adhesion & Liner Release:

Adhesion to steel, 180° Peel*	55.2 oz/in (15.3 N/25.4 mm)
Adhesion to polyester, 180° Peel*	54.3 oz/in (15.1 N/25.4 mm)
Adhesion to polycarbonate, 180° Peel*	49.2 oz/in (13.7 N/25.4 mm)
Adhesion to acrylic, 180° Peel*	45.8 oz/in (12.7 N/25.4 mm)
Adhesion to polypropylene, 180° Peel*	38.6 oz/in (10.7 N/25.4 mm)
Liner Release, 180° Peel	7.6 gm/in (0.07 N/25.4 mm)

*Adhesion tested after 5-minute dwell time. Adhesion and release values are dependent on test method conditions; values obtained under different test conditions may vary from those listed above.

Biocompatibility Testing:

Product 9795R has been subjected to the following safety evaluations.

Study Type	Test Method	Standard	GLP	Results
In vitro cytotoxicity	Cell lysis & cytotoxicity	ISO 10993-5: ≤ 2	Yes	Reactivity grade: 0
MEM elution	Cell lysis & cytotoxicity	ISO 10993-5: ≤ 2	Yes	Reactivity grade: 0
Hemolytic Index	Interaction with blood	ISO 10993-4: <math>< 2\%</math>	Yes	Non-Hemolytic (index: 0.0%)
	Test article extract	ISO 10993-4: <math>< 2\%</math>	Yes	Non-Hemolytic (index: 0.0%)

Optical Properties & Spectroscopy:

Transmission: 94.6%	Haze: 12.0%	Clarity: 92.7%
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Represents typical value based on ASTM: D1003.

Spectroscopy

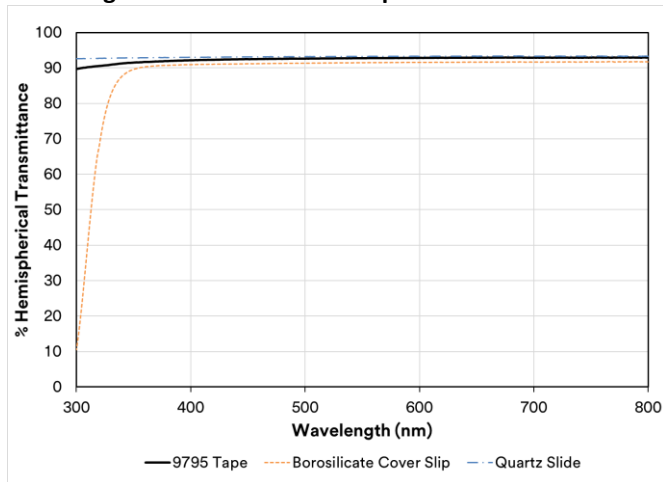
Integrated Emission Intensity

Samples were compared to known reference materials, quartz slide, borosilicate slide and 10 ppb quinine. Quinine sulfate was chosen due to its high purity and stability as a fluorescence standard reference material.

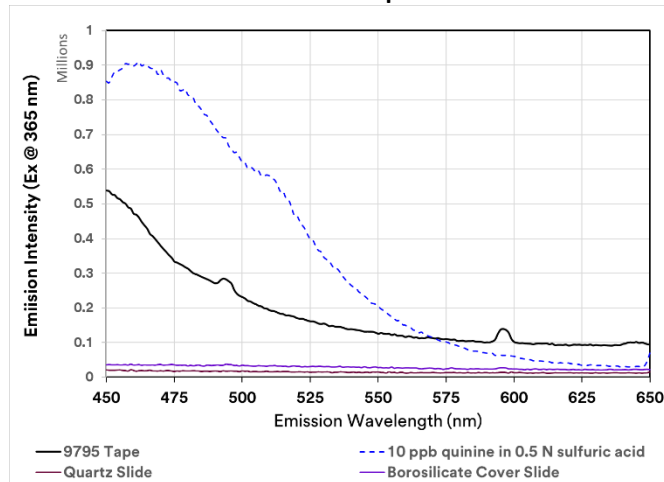
Sample	Integrated Emission Intensity x 10 ⁶ *
Quartz Slide	2.9
Borosilicate Cover Slide	5.7
3M 9795	37.5
10 ppb quinine in 0.5 N sulfuric acid	69.3

*Sum of emission intensities over the range ($\lambda_{EX} = 365 \text{ nm}$, $\lambda_{EM} = 450\text{-}650 \text{ nm}$)

Average Corrected Total Hemispherical Transmittance



Fluorescence Spectra



Recommended Storage Conditions & Shelf Life:

Product as supplied in original packaging will maintain certified properties for a period of two years from date of manufacture when stored at room temperature 68-77 °F (20-25 °C).

Product and Safety Information: User is solely responsible for determining the suitability of 3M samples and products for the intended use including any necessary safety or toxicity assessment. 3M will provide Material Safety Data Sheets or equivalent and summary results of biocompatibility testing upon request. In every case before using any product in full scale production users should conduct their own tests to determine to their own satisfaction whether the product is of acceptable quality and is suitable for their particular purposes under their own operating conditions.

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To place an order, call our Customer Service at: **800-742-1994 (U.S.)**. For all orders outside the United States, please contact your local country representative or check out **3M.com/MedTechFindaRep** for your region's contact information.

To have a sales representative contact you, to request samples or clinical and safety summaries, please contact us at 3M HELPLINE 800-228-3957 (U.S.) or check out **3M.com/MedTechContactUs** for your region's contact information.

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