

## Certificate of Analysis

Date of Testing: 2022-06-29 17:20:52  
Date of Next Testing: 2023-06-29 17:20:52  
Product Name: **Trifluoroacetic acid (TFA)**  
CAS Number: 76-05-1  
Specifications & Purity: for HPLC,  $\geq 99.5\%$   
Lot #: F2224336  
SKU #: **T103294**  
**Analysis: 096142**  
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Evaporation Residue	0-0.005 (%)	0.00 %
Purity (Titration by NaOH)	99.5-100 (%)	99.62 %
UV Absorbance 280nm	0-0.05	0.03
UV Absorbance 320nm	0-0.025	0.01
UV Absorbance 300nm	0-0.03	0.02
Water by Karl Fischer	0-0.05 (%)	0.03 %
UV Absorbance 270nm	0-0.1	0.08
UV Absorbance 260nm	0-0.9	0.85
UV Absorbance 290nm	0-0.04	0.03
Purity(GC)	99.5-100 (%)	99.52 %
Color test (APHA)	$\leq 20$ (APHA)	19.20 APHA
Appearance (T103294)	Colorless Liquid	Colorless liquid
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager