

## Certificate of Analysis

Date of Testing: 2022-09-12 10:53:03  
Date of Next Testing: 2026-09-11 10:53:03  
Product Name: **4-Pyrazolecarboxylic acid**  
CAS Number: 37718-11-9  
Specifications & Purity: 98%  
Lot #: I2208048  
SKU #: **P119073**  
Analysis: **115701**

| Parameter            | Limit Values                          | Result                                |
|----------------------|---------------------------------------|---------------------------------------|
| Purity(HPLC)         | 98-100 (%)                            | 98.73300 %                            |
| Appearance (P119073) | White to Off-White Powder or Crystals | White to Off-White Powder or Crystals |
| Proton NMR spectrum  | Conforms to Structure                 | Conforms to Structure                 |

A handwritten signature in black ink that reads "John Su".

John Su  
QA & QC Manager