

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2022-09-29 20:20:43  
 Date of Next Testing: 2026-09-28 20:20:43  
 Product Name: (S)-2,5-Dihydro-3,6-dimethoxy-2-isopropylpyrazine  
 CAS Number: 78342-42-4  
 Specifications & Purity: ≥97%  
 Lot #: I2227146  
 SKU # D111782  
 Version 1  
 Analysis #: 126315  
 Storage Temperature: Room temperature

| Parameter                                           | Limit Values                     | Result                           |
|-----------------------------------------------------|----------------------------------|----------------------------------|
| Purity(GC)                                          | 97-100 (%)                       | 98.60000 %                       |
| Density (20°C)                                      | 1.026-1.029                      | 1.02700                          |
| Specific Rotation [α] <sub>20</sub> /D(c=1 in EtOH) | 97-107 (°)                       | 98.53000 °                       |
| Refractive index n <sub>20</sub> /D                 | 1.46-1.463                       | 1.46210                          |
| Appearance (D111782)                                | Colorless to light yellow liquid | Colorless to light yellow liquid |
| NMR Spectrum 1H                                     | Conforms to Structure            | Conforms to Structure            |



John Su  
QA & QC Manager