

## Certificate of Analysis

Date of Testing: 2024-11-29 10:43:58  
 Date of Next Testing: 2027-11-29 10:43:58  
 Product Name: **(R)-3-Hydroxybutanoic acid**  
 CAS Number: 625-72-9  
 Specifications & Purity:  $\geq 95\%$   
 Lot #: K2425485  
 SKU #: **R304188**  
 Version: **1**  
 Analysis #: **434836**  
 Storage Temperature: Store at 2-8°C, Desiccated

| Parameter                                                       | Limit Values                                                   | Result                                                         |
|-----------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|
| Purity(GC)                                                      | 95-100 (%)                                                     | 97.17 %                                                        |
| Specific Rotation<br>[ $\alpha$ ] <sub>20/D</sub> (c=1 in MeOH) | -25--23 (°)                                                    | -23.02 °                                                       |
| Appearance(R304188)                                             | Colorless or White or Light Yellow Powder or Crystals or solid | Colorless or White or Light Yellow Powder or Crystals or solid |
| Proton NMR spectrum                                             | Conforms to structure                                          | Conforms to Structure                                          |



John Su  
QA & QC Manager