

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2024-05-21 11:29:20  
 Date of Next Testing: 2028-05-20 11:29:20  
 Product Name: **Cellulose acetate butyrate(CAB)**  
 CAS Number: 9004-36-8  
 Specifications & Purity: butyryl content 30-35%, Mn ~12,000  
 Lot #: E2413214  
 SKU #: **C101030**  
 Version: **0**  
 Analysis #: **338255**  
 Storage Temperature: Room temperature

| Parameter             | Limit Values                                     | Result                                           |
|-----------------------|--------------------------------------------------|--------------------------------------------------|
| Acetyl Content        | 16-19 (%)                                        | 16.65000 %                                       |
| Water by Karl Fischer | 0-3 (%)                                          | 0.48000 %                                        |
| viscosity             | 0.06-0.14 (cP)                                   | 0.09500 cP                                       |
| Hydroxyl Content      | 1-1.6 (%)                                        | 1.20000 %                                        |
| Free Acidity          | 0-300 (ppm)                                      | 107.00000 ppm                                    |
| Butyryl content       | 30-35 (%)                                        | 33.79000 %                                       |
| Molecular Weight      | 11500-12500                                      | 12000.00000                                      |
| Appearance (C101030)  | White Powder, Crystals, Fibers, Flakes, or Solid | White Powder, Crystals, Fibers, Flakes, or Solid |
| Infrared spectrum     | Conforms to Structure                            | Conforms to Structure                            |



John Su  
QA & QC Manager