

## Certificate of Analysis

**Product Name:** Aluminum Sulfate (Hydrated)

### Product Information

- Product Number: AS-CAS10043013-202612
- Batch Number: AS-2025120101
- Brand: SIGALD
- CAS Number: 10043-01-3
- MDL Number: MFCD00149186
- Formula:  $Al_2(SO_4)_3 \cdot nH_2O$  (n=14-18, typically 18)
- Formula Weight: Variable (approx. 666.43 g/mol for 18-hydrate)
- Quality Release Date: 01 DEC 2025

Test Item	Specification (GB/T 31060-2014)	Result	Test Method
Appearance	White crystalline powder or flakes	White crystalline powder	Visual Inspection
Aluminum Oxide ( $Al_2O_3$ ) Content	$\geq 15.6\%$	16.2%	Complexometric Titration (EDTA Method)
Iron (Fe)	$\leq 0.5\%$	0.18%	Atomic Absorption Spectrometry (AAS)
pH Value (1% Aqueous Solution, 25°C)	2.5-4.0	3.3	Digital pH Meter
Insoluble Matter in Water	$\leq 0.1\%$	0.04%	Gravimetric Method
Heavy Metals (Pb)	$\leq 0.0005\%$	0.0001%	Atomic Absorption Spectrometry (AAS)
Arsenic (As)	$\leq 0.0002\%$	0.00006%	Atomic Fluorescence Spectrometry (AFS)
Chromium ( $Cr^{6+}$ )	$\leq 0.0003\%$	0.00009%	Diphenylcarbazide Spectrophotometry
Mercury (Hg)	$\leq 0.00001\%$	0.000002%	Atomic Fluorescence Spectrometry (AFS)
Cadmium (Cd)	$\leq 0.00005\%$	0.00002%	Atomic Absorption Spectrometry (AAS)
Chloride (as $Cl^-$ )	$\leq 0.01\%$	0.003%	Silver Nitrate Titration
Supplier Information	Confirmed	Confirmed	-
Registered Trademark	Confirmed	Confirmed	-

This batch of product has been tested in accordance with GB/T 31060-2014 and meets all specified requirements. It is qualified for use.

Issue Date: 01 DEC 2025