



# NEWAY SINOPHC TECH. LIMITED

ADD:RM. 204, BUILDING 3, NO. 188, AONA RD., CHINA (SHANGHAI) PILOT FREE TRADE ZONE.  
Email:marketing01@newayphc.com; Phone:+86-021-50350029 <https://www.newayphc.com>

## Certificate of Analysis (COA)

**Product Name: Vitabate-100 (Food Grade)**

### Product Information

Item	Details
Product Number	VTB-100-20260228
Batch Number	VTB-100-SH2026022801
Brand	SIGALD
CAS Number	N/A (Composite food grade organic acid mixture)
MDL Number	N/A (No specific MDL for composite organic acid blend)
Formula	Blend of Natural Food Grade Organic Acids (Citric Acid, Malic Acid, Lactic Acid, Fumaric Acid, Tartaric Acid)
Formula Weight	Variable (90.08-150.09 Da, single organic acid molecular weight)
Quality Release Date	28 FEB 2026

### Test Results (Compliant with National Food Additive Standards)

Test	Specification	Result	Unit	Test Method
Appearance	White crystalline powder; free-flowing, no caking	White crystalline powder	-	Visual Inspection
Odor	Slight characteristic sour odor; no off-flavor	Slight sour odor	-	Sensory Evaluation
Total Organic Acid Content	≥ 98.5%	99.4%	%	Titration Method (NaOH)
Citric Acid Content	40.0-45.0%	42.8%	%	High Performance Liquid Chromatography (HPLC)
Malic Acid Content	20.0-25.0%	22.5%	%	HPLC
Lactic Acid Content	15.0-20.0%	17.2%	%	HPLC
Mixed Organic Acids (Fumaric/Tartaric)	10.0-15.0%	11.9%	%	HPLC
Moisture Content	≤ 1.0%	0.45%	%	Karl Fischer Titration
Ash Content	≤ 0.1%	0.05%	%	Gravimetric Method (550±25°C)
pH Value (1% aqueous, 25°C)	2.0-3.0	2.5	-	Digital pH Meter
Heavy Metals (as Pb)	≤ 1 ppm	<0.01 ppm	ppm	Atomic Absorption Spectrometry (AAS)
Heavy Metals (As)	≤ 0.5 ppm	<0.01 ppm	ppm	Atomic Fluorescence Spectrometry (AFS)
Cadmium (Cd)	≤ 0.05 ppm	<0.01 ppm	ppm	AAS
Mercury (Hg)	≤ 0.01 ppm	<0.01 ppm	ppm	Cold Vapor Atomic Absorption
Total Bacterial Count	≤ 100 CFU/g	15 CFU/g	CFU/g	Plate Count Method
E. coli	Negative	Negative	-	Microbiological Detection
Salmonella	Negative in 25g	Negative	-	Microbiological Detection

### Certification

This batch of **Food Grade Vitabate-100** has been tested in accordance with the national food additive standards for organic acid mixtures and meets all specified requirements. It is qualified for food production and application.

**Date:** 28 FEB 2026