Acros Organics BV (Thermo Fisher Scientific)
Janssen Pharmaceuticalaan 3a
Geel,
2440, Belgium

CERTIFICATE OF ANALYSIS

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by Intertek. Certificate Number. 2317548

Catalogue Number	44292
Lot Number	345438
Description	L-Alanine tert-butyl ester hydrochloride,99%
CAS Number	13404-22-3
Quality Test/Release Date	05/May/2025
Suggested retest date	05/May/2030
Country of Origin	CHINA
Declaration of Origin	synthetic
BSE/TSE	Not directly derived from or manufactured with any animal byproducts in any way (Including but not limited to fermentation or nutrient broth, catalysts, enzymes).

Result Name	Units	Specifications	Test Value
Appearance (Color)		White to off-white	White
Appearance (Form)		Crystalline powder or solid	Solid
Infrared spectrum		Conforms	Conforms
Titration Argentometric	%	>=98.5 to =<101.5	100.4
Specific optical rotation		+1.2° to +1.6° (20°C, 589 nm) (c=2 in EtOH)	+1.6° (20°C, 589 nm) (c=2 in EtOH)



Geert Torfs
Supervisor, QC

Products are processed under ISO 9001:2015 quality management systems and samples are tested for conformance to the noted specifications. Certain data may have been supplied by third parties. We disclaim the implied warranties of merchantability and fitness for a particular purpose, and the accuracy of third-party data or information associated with the product. Products are for research and development use only. Products are not for direct administration to humans or animals. It is the responsibility of the final formulator or end user to determine suitability, and to qualify and/or validate each product for its intended use.

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of the catalogue number listed above.