

Complete Workflow Solutions for Amino Acid Analysis

Accurately separating, identifying, and quantitating amino acids is challenging.

From education to automation, Waters complete workflow solutions simplify and support your amino acid analysis from start to finish.

Applications

Amino Acid Analysis of:

- < Complex Food and Feed Samples
- Cell Cultures >
- < Fermentation Broths
- Pure Protein > Hydrolysate

Sample Preparation

GOALS

- Accuracy
- Stability
- Ease-of-use
- High throughput

Identification and Quantification

Amino Acid Standard Kits
Cell Culture, Food & Feed, Hydrolysates, Internal Standard

AccQ-Tag™ Ultra Automation Kits
Scripts ready for Tecan, Hamilton, and Andrew

Reagent Kits
for Manual and Automated Solutions

Separation

GOALS

- Fast, reliable results
- Base-line separation
- Repeatability and reproducibility
- Guaranteed separation

AccQ-Tag Ultra C₁₈ Column

Hydrolysate - 17 AA

Cell Culture Media - 26 AA

Chromatograms of 10-minute cycle time on UPLC

Detection & Data Processing

GOALS

- Flexible detection options
- Ease-of-use
- High sensitivity
- Reliable low-level detection

TUV, PDA, and Fluorescence Detectors

Empower™

Total System Solution
ACQUITY™ UPLC™, ACQUITY UPLC H-Class, and ACQUITY UPLC H-Class Bio

Support & Education

GOALS

- Fast startup
- Installation and qualification
- On-site training and support for total system solution
- In-depth resources and examples

AAA Application Notebook

Hydrolysis Primer

Familiarization Support

For any questions, please contact your local sales representative or send an email to Chemistry_Technical_Service@waters.com, or chemistry@waters.com (Europe)

Ordering Information

AccQ•Tag Ultra Amino Acid Analysis Kits and Accessories	Part Number
AccQ•Tag Ultra Derivatization Kit, 250 analyses	186003836
AccQ•Tag Borate Buffer – 10 mL	186009283
AccQ•Tag Ultra 1.7 µm, 2.1 × 100 mm Column	186003837
AccQ•Tag Ultra Eluent A (950 mL)	186003838
AccQ•Tag Ultra Eluent B (950 mL)	186003839
Total Recovery Vials with Caps	186000384C
AccQ•Tag Ultra Chemistry Kit	176001235
ACQUITY UPLC H-Class AAA Application Kit*	176002983
ACQUITY UPLC AAA Application Kit*	176001279

* Available in select regions.

Automation Kits and Accessories	Part Number
AccQ•Tag Ultra Derivatization Kit – Automation, 96 analyses	186009232
AccQ•Tag Borate Buffer – 10 mL	186009283
96-Well Sample Collection Plate, 800 µL Round well, 50/pk	186002481
Cap Mat, 5/pk	186006332
AccQ•Tag Ultra Cell Culture Chemistry Kit – Automation	176004534
AccQ•Tag Ultra Food & Feed Chemistry Kit – Automation	176004533
AccQ•Tag Ultra Hydrolysates Chemistry Kit – Automation	176004542
AccQ•Tag Ultra Cell Culture Tecan Script Starter Kit – CD	176004543
AccQ•Tag Ultra Cell Culture Tecan Script Starter Kit – USB	176004544
AccQ•Tag Ultra Cell Culture Hamilton Script Starter Kit – CD	176004545
AccQ•Tag Ultra Cell Culture Hamilton Script Starter Kit – USB	176004546

Amino Acid Standards	Part Number
Amino Acid Standard (Hydrolysates)	WAT088122
Amino Acid Cell Culture Standard Kit	186009300
Amino Acid Food and Feed Standard Kit	186009299
Amino Acid Internal Standard – Norvaline	186009301

