

Certificate of Analysis

PRODUCT INFORMATION:

Product Name: QG AQC-Tag Amino Acid Analysis Kit

Part Number: T80421

Lot Number: Q20260601

Description: Kit sufficient for 50 amino acid analyses

Storage: 2-8°C, protected from light

QC TEST RESULTS:

Item	Specification	Test Value	Result
Appearance	Clear liquid / off-white powder	Conforms	Pass
Derivatization efficiency	$\geq 90\%$	96.2%	Pass
Resolution (Asp/Thr, Cys/Tyr, Val/Met, Ile/Leu)	$R_s > 0.90$	> 1.20	Pass
Retention time RSD	$\leq 2.0\%$	0.8%	Pass
Peak area RSD	$\leq 5.0\%$	2.3%	Pass
LOD	≤ 5 pmol	1.2 pmol	Pass
Sensitivity	pmol-level detection for hydrolyzed amino acids	Conforms	Pass
Stability	Amino acid derivatives stable for 7 days at room temperature	Conforms	Pass
Background interference	AMQ hydrolysis by-product shows only minor interference peak	Conforms	Pass

Chromatographic Conditions:

Column: QXG-AAA 5 μ m, 4.6 $\times$ 250mm

Mobile Phase A: Formic acid-ammonium formate buffer

Mobile Phase B: 0.1% Formic acid in acetonitrile

Injection Volume: 5 μ L

Detection: UV 260 nm

Temperature: 45 °C

Flow Rate: 1.0 mL/min

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Quality Assurance



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