QUALITIDE, LLC.

3326 Durham-Chapel Hill Blvd, Durham, North Carolina, 27707, USA
Toll-free:+1(888)778-9338, Email: sales@qualitide.com
www.qualitide.com

Certification of Analysis

Product Name	**Palmitoyl Pentapeptide-4**		
CAS. No.	**214047-00-4**	**Batch No.**	**YS68241001**
Molecular Formula	**$C_{39}H_{75}N_7O_{10}$**	**Molecular Weight (g/mol)**	**802.05**
Cat. No	**QT-1012**	**Manufacturing Date**	**10/08/2024**
Storage	**2 - 8°C, -15~-20°C preferred for long-term storage**	**Retest Date**	**10/07/2026**
Sequence	**Pal-Lys-Thr-Thr-Lys-Ser-OH**		

TEST	SPECIFICATION	RESULT
Appearance	**White or off-white powder**	**Conformed**
Identity by HPLC	**The retention is same with the reference substance**	**Confirmed**
Identity by MS	**802.05±1**	**802.73**
Peptide Purity (By HPLC)	**≥98.0%**	**99.38%**
Related Substances (by HPLC)	**Total impurity: ≤ 2.0%** **Largest Single Impurity: ≤1.0%**	**0.61%** **0.28%**
Water Content (Karl Fischer)	**≤8.0%**	**1.01%**
HCl Content	**≤15.0%**	**13.28%**
Conclusion: The test results meet the required specifications, and the item is qualified.		

QUALITIDE

Storage Recommendation:

- Short-Term Storage: Store at 2–8°C in a cool, dry place.
- Long-Term Storage: Store at -20°C to -15°C.
- General Conditions: Protect from light and keep the packaging airtight when not in use.

Tested By *Jane Merrill*, **Checked By** *Ashley Bennet*, **Audited By** *Liu Jing*

Qualitide Quality Control Department Date: 2025-06-20