Aktin Chemicals, Inc.
No.88 Keyuan South Road, High-tech Zone, Chengdu
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SPECIFICATION SHEET

File No.:JT-TDS-CP0084 Version:00 Effective date:2026.11.05

Product Name	AktiPep™ PP4 Palmitoyl Pentapeptide-4
CAS No.	214047-00-4
Molecular Formula	$C_{39}H_{75}N_7O_{10}$
Molecular Weight	802.06
Product Specification	98.0%
Country of Origin	China

QUALITY SPECIFICATIONS

ITEMS	SPECIFICATIONS	METHODS
Appearance	White or off-white powder	Visual
Identification	According to the mass spectrometry method, the m/z of the test solution is 802.1 ± 0.5Da	ESI-MS
	In the chromatogram recorded under the content determination item, the retention time of the main peak of the test solution should be consistent with that of the reference solution	HPLC
Moisture	≤8.0%	KF
Impurities	≤2.0%	HPLC
TFA	≤1.0%	HPLC
Acetic acid	≤15.0%	HPLC
Assay		
Palmitoyl Tetrapeptide-7	NLT 98.0 %	HPLC
Peptide	NLT 80.0 %	AAA
Residues		
Solvent Residues	USP<467>	GC
Benzoapyrene	<10ppb	HPLC
Sum of PAHS	<50ppb	HPLC
Heavy metals		
Heavy Metals	≤20ppm	ICP-MS

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ITEMS	SPECIFICATIONS	METHODS
Lead	≤2ppm	ICP-MS
Arsenic	≤1ppm	ICP-MS
Mercury	≤0.1ppm	ICP-MS
Cadmium	≤1ppm	ICP-MS
Microbiological		
Total Plate Count	<1000cfu/g	USP <2021>
Yeast& Mold	<100cfu/g	USP <2021>
E.Coli	Negative	USP <2022>
Salmonella	Negative	USP <2022>
Staphylococcus	Negative	USP <2022>
Statement: Non-Irradiated, Non-BSE/TSE, Non-GMO, Non-Allergen		

STORAGE, STABILITY & PACKAGING

Storage	Store in a cool and dry place, avoid strong light and high temperature.
Stability	24 months when properly stored.
Packaging	25kg/drum or as requested.