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

File No.:JT-TDS-CP0091 Version:00 Effective date:2026.11.05

Product Name	AktiPep™ AT5 Acetyl Tetrapeptide-5
CAS No.	820959-17-9
Molecular Formula	$C_{20}H_{28}N_8O_7$
Molecular Weight	492.5
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 $[M+H]^+$ m/z of the test solution is 493.5 ± 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
pH（1% water solution）	5.0~7.0	USP<791>
TFA	≤1.0%	HPLC
Acetic acid	≤5.0%	HPLC
Assay		
Acetyl Tetrapeptide-5	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
Lead	≤2ppm	ICP-MS

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ITEMS	SPECIFICATIONS	METHODS
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	Short-term storage: at 2–8°C in a tightly closed container, in a dry place, protected from light.
	Long-term storage: at −20°C in a tightly closed container, in a dry place, protected from light.
Stability	24 months when properly stored.
Packaging	25kg/drum or as requested.