# Certificate of Analysis 检验报告书

**RESEARCH USE ONLY** Report No. SQ261012-MOTSC40-R1

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|---|---|---|---|---|---|
| **品名** | Product | 线粒体衍生肽 MOTS- C | **批号** | Batch No. | SQ261012-MOTSC40 |
| **CAS 号** | CAS No. | 1627580-64-6 | **规格** | Strength | 40 mg |
| **生产日期** | Mfg. Date | 2026-10-12 | **复检日期** | Retest Date | 2027-10-11 |
| **检验日期** | Test Date | 2026-10-15 | **执行标准** | Standard | In house / 企业标准 |
| **包装形式** | Packaging | Double layer polyethylene bag,Double layer aluminum-plastic film bag / 双层聚乙烯袋，双层铝塑袋 | | | |

| Test Item<br>检测项目 | Acceptance Criteria<br>可接受标准 | Result<br>检验结果 |
|---|---|---|
| **Appearance**<br>性状 | White or off-white powder<br>白色或类白色粉末 | white powder<br>白色粉末 |
| **Solubility**<br>溶解度 | Soluble or freely soluble in water<br>在水中溶解或易溶 | freely soluble in water<br>易溶于水 |
| **Average Molecular Weight**<br>平均分子量 | 2174.59±1.0 Da | 2174.47Da |
| **Chromatographic Identification**<br>色谱鉴别 | The retention time of the main peak of Sample Solution should be consistent with that of the Standard solution,as obtained in the Assay<br>在含量测定项下记录的色谱图中，供试品溶液主峰的保 留时间应与对照品溶液主峰的保留时间一致 | Meet the requirement<br>符合规定 |
| **PH** | 6.0-9.0 | 7.56 |
| **Clarity and Color of Solution**<br>溶液的澄清度与颜色 | Clarity: Clear transparent solution, free from turbidity, precipitate and insoluble particles.<br>应澄清无色 | Colour: Characteristic bright sky blue solution.<br>符合要求 |
| **Chromatographic Purity**<br>色谱纯度 | NLT98.0%<br>不小于98.0% | 99.13% |
| **Related Substances**<br>有关物质 | Maximum unknown single impurity NMT 1.0%<br>最大未知单杂不得过1.0% | 0.41% |
| **High Molecular Weight Proteins**<br>高分子蛋白质 | NMT0.8% | 0.13% |
| **Water Content**<br>水分 | NMT 3.0% | 2.18% |
| **TFA Residual**<br>三氯乙酸 | NMT0.05% | 0.1% |

**Verify online / 在线核验: seqline.bio/coa/mots-c-40mg-sq261012-motsc40**

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MOTS- C 40 mg · Batch SQ261012-MOTSC40 · Report SQ261012-MOTSC40-R1 (continued / 续)

| Test Item<br>检测项目 | Acceptance Criteria<br>可接受标准 | Result<br>检验结果 |
|---|---|---|
| **Heavy Metals**<br>重金属 | NMT 10ppm | ND<br>均未检出 |
| **Residual Solvents**<br>残留溶剂 | Methanol NMT 3000ppm<br>甲醇不得过3000ppm | 125ppm |
| | Acetonitrile NMT 410ppm<br>乙腈不得过410ppm | 73ppm |
| | Dichloromethane NMT 600ppm<br>二氯甲烷不得超过600pp | 50pm |
| | N,N-Dimethylformamide NMT 880ppm<br>N,N-二甲基甲酰胺不得过880ppm | 61ppm |
| **Microbial Limit**<br>微生物限度 | Total Aerobic Microbial Count NMT100 cfu/g<br>需氧菌总数应不得过100cfu/g | Meet the requirement<br>符合要求 |
| **Bacterial Endotoxin**<br>细菌内毒素 | ⩽10 EU/mg | 2.7 EU/mg |
| **Peptide Content**<br>肽含量 | NLT 88.0% | 96.78% |
| **Assay**<br>含量 | 95.0%~105.0%(On Anhydrous and Sodium Free)<br>95.0%~105.0%(以无水、无钠离子计) | 103.56% |


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