

CERTIFICATE OF ANALYSIS

| | | | |
|---------------------------|---------------------|---------------------------|----------------|
| Product Name | Mots-c Acetate | | |
| CAS No. | 1627580-64-6 | Batch No. | 2025112880001 |
| Product No. | 80001 | Quantity | 500 grams |
| Molecular Formula | N/A | Mfg. Date | 2025/11/28 |
| Molecular Weight | N/A | Re-test Date | 2027/11/27 |
| Reference Standard | Enterprise Standard | Packing size | 5g/bag |
| Application | Research Use Only | Storage conditions | -15°C to -25°C |
| Sequence | N/A | | |

TESTS

SPECIFICATIONS

RESULTS

Appearance

White or off-white powder

White powder

Solubility

Soluble in water (No less than 10mg/ml)

Conforms

HPLC

The principal peak in the chromatogram obtained with the test solution is similar in retention time to principal peak in the chromatogram obtained with the reference solution.

Conforms

Amino acid content

Tyr 1.8-2.2

2.0

Gly 0.9-1.1

1.0

Ile 0.9-1.1

1.0

Met 1.8-2.2

2.0

Lys 0.9-1.1

1.0

Phe 0.9-1.1

1.0

Arg 2.7-3.3

3.1

Pro 0.9-1.1

1.0

Leu 0.9-1.1

1.0

Glu 1.8-2.2

1.0

Mass spectrum

2174.6±1.0

2174.0

Related Substances(HPLC)

Any individual impurity≤1.0%

0.19%

Total impurities≤2.0%

0.41%

| | | |
|------------------------------|---|----------|
| Purity (%) (HPLC) | ≥98.0% | 99.6% |
| pH | 4.0~6.0 | 5.8 |
| Acetic acid | 7.6%~12.1% | 8.1% |
| Trifluoroacetate | ≤0.5% | N.D |
| Water content (KF) | ≤8.0% | 2.7% |
| Peptide Content | ≥80.0% | 88.8% |
| Residual solvent (GC) | Methanol NMT 3000ppm | N.D |
| | Methylene chloride NMT 600ppm | N.D |
| | Acetonitrile NMT 410ppm | 177ppm |
| | Methyl tert-butyl ether NMT 5000 ppm | N.D |
| | DMF NMT 880ppm | N.D |
| Bacterial endotoxins | Less than 10EU/mg | <3EU/mg |
| Microbial limits | TAMC NMT 100cfu/g TYMC NMT 100cfu/g | Conforms |
| Storage | In an air tight container, protected from light | |
| Temperature | Short Term:2-8℃ ; Long Term:below-10℃ | |
| Conclusion | the product complies with specification. | |

It is only supplied as chemical product.

Analysis:Janie.zhang
Date :2025.12.4

Approved by: Christ.zheng
Date :2025.12.4