

FUJIFILM**Wako**

Code No. 090-05881 (2 nmol × 1)

Insulin (Human) MALDI-MS Calibrant

Insulin (Human) MALDI-MS Calibrant is used to calibrate matrix assisted laser desorption ionization (MALDI) mass spectrometry. It has been tested by HPLC and MALDI-TOF-MS to meet certain performance criteria in selected modes of positive ion analysis (Reflector, Linear).

Appearance : Lyophilized powder

Amino-acid sequence :

A-chain : Gly-Ile-Val-Glu-Gln-Cys-Cys-Thr-Ser-Ile-Cys-Ser-Leu-Tyr-Gln-Leu-Glu-Asn-Tyr-Cys-Asn

B-chain : Phe-Val-Asn-Gln-His-Leu-Cys-Gly-Ser-His-Leu-Val-Glu-Ala-Leu-Tyr-Leu-Val-Cys-Gly-Glu-Arg-Gly-Phe-Phe-Tyr-Thr-Pro-Lys-Thr

Exact mass : 5803.6377
(monoisotopic) 5804.6455 [M + H]⁺

Procedure :

1. Dissolve 1 vial of Insulin (Human) MALDI-MS Calibrant with 20 μ L 0.1% TFA¹⁾ (**Stock Solution**).
2. Apply 0.5 μ L Stock Solution and 0.5 μ L Matrix Solution to MALDI target and mix them.
(**Matrix Solution** : Dissolve 10 mg CHCA²⁾ with 1 μ L TFA and 1 mL 50% Acetonitrile³⁾.)
3. Dry the mixture and measure it.

- 1) Trifluoroacetic Acid (TFA) (Code No. 204-02743)
- 2) α -Cyano-4-hydroxycinnamic Acid (CHCA)
(Code No. 037-19261)
- 3) Acetonitrile (Code No. 016-19854)

Storage : Keep at -20°C
(Stock Solutions can be frozen in aliquots, but it is recommended for use in a few weeks.)

MALDI-MS Calibrants :

Code No.	Name	(M + H) ⁺ (monoisotopic)	Size
019-22931	Angiotensin II (Human)	1046.5423	2 nmol × 1
090-05881	Insulin (Human)	5804.6455	2 nmol × 1

Related products :

Code No.	Name	Size
037-19261	α -Cyano-4-Hydroxycinnamic Acid (CHCA)	50 mg × 5
192-13361	Sinapic Acid (SA)	50 mg × 5
044-29101	2,5-Dihydroxybenzoic Acid (DHB)	50 mg × 5
125-05061	Lysyl Endopeptidase [®] , Mass Spectrometry Grade	20 μ g × 5
202-15951	Trypsin, from Porcine Pancreas, Mass Spectrometry Grade	20 μ g × 5
293-57701	Negative Gel Stain MS Kit	20 tests
299-58901	Silver Stain MS Kit	20 tests

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