



The Power to Question

# CERTIFICATE OF ANALYSIS

Catalog Number: sc-200868  
Lot Number: SAMPLE  
Product Name: Melittin  
CAS Number: 37231-28-0  
Molecular Formula:  $C_{131}H_{229}N_{39}O_{31}$   
Molecular Weight: 2846.45  
Native Source: synthetic

| Test                               | Specification  | Result  |
|------------------------------------|--|---|
| Appearance                         | White to off-white powder  | White powder  |
| Identification (Mass Spectrometry) | Consistent with standard reference   | Complies  |
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| Purity (HPLC)                      | $\geq 97\%$  | 99.2%   |
| Solubility                         | Soluble in water   | Complies  |
| Peptide Content                    | 70 - 90%   | 79%   |
| Amino Acid Analysis                | Ala: 1.80 - 2.20<br>Arg: 1.80 - 2.20<br>Glx: 1.80 - 2.20<br>Gly: 2.80 - 3.20<br>Ile: 2.80 - 3.20<br>Leu: 3.80 - 4.20<br>Lys: 2.80 - 3.20<br>Pro: 0.80 - 1.20<br>Ser: 0.80 - 1.20<br>Thr: 1.80 - 2.20<br>Trp: 0.80 - 1.20<br>Val: 1.80 - 2.20 | Ala: 2.02<br>Arg: 1.99<br>Glx: 2.11<br>Gly: 2.97<br>Ile: 2.94<br>Leu: 4.04<br>Lys: 2.95<br>Pro: 1.00<br>Ser: 0.89<br>Thr: 1.81<br>Trp: Mostly destroyed during hydrolysis.<br>Val: 1.95 |
| Counter Ion                        | TFA salt   | Complies  |

Satisfaction Guarantee: We appreciate your business and are committed to providing the highest level of quality and service. Any product that does not meet the performance standards indicated in our product literature will be replaced at no charge. Our policy is valid for one year from the date of your purchase.

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