

NARRATIVE REVIEW: TITRASI IODOMETRI DALAM PENENTUAN KADAR VITAMIN C

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ABSTRAK

Vitamin C, atau asam askorbat, merupakan nutrisi penting yang berfungsi sebagai antioksidan dan berperan dalam berbagai proses biokimia dalam tubuh. Penentuan kadar vitamin C dalam makanan, terutama buah-buahan, sangat penting untuk memastikan asupan nutrisi yang memadai. Titrasi iodometri adalah metode analisis yang efektif dan ekonomis untuk menentukan kadar vitamin C. Jurnal ini membahas aplikasi titrasi iodometri dalam analisis kadar vitamin C, merujuk pada tiga penelitian yang meneliti kadar vitamin C dalam bawang dayak, bawang merah, dan berbagai jenis jambu. Hasil penelitian menunjukkan bahwa kadar vitamin C bervariasi tergantung pada jenis tanaman dan metode ekstraksi yang digunakan. Penelitian ini menegaskan pentingnya pemahaman tentang faktor-faktor yang mempengaruhi kadar vitamin C, serta implikasinya bagi kebijakan pangan dan kesehatan masyarakat. Melalui metode yang tepat dan pemilihan sumber makanan yang kaya vitamin C, masyarakat dapat meningkatkan pola makan sehat dan mencegah defisiensi vitamin C, sehingga mendukung kesehatan secara keseluruhan.

Kata Kunci : Vitamin C, Asam askorbat, Titrasi iodometri, Kadar vitamin C, Metode analisis, Kesehatan Masyarakat

PENDAHULUAN

Vitamin C, atau asam askorbat, adalah nutrisi esensial yang memiliki banyak fungsi penting dalam tubuh manusia. Sebagai antioksidan, vitamin C berperan dalam melindungi sel-sel dari kerusakan yang disebabkan oleh radikal bebas, yang dapat berkontribusi terhadap berbagai penyakit degeneratif. Selain itu, vitamin C juga berfungsi dalam mendukung sistem kekebalan tubuh, meningkatkan penyerapan zat besi dari makanan, dan berperan dalam sintesis kolagen, protein yang sangat penting untuk kesehatan kulit, tulang, dan jaringan ikat. Oleh karena itu, asupan yang cukup dari vitamin C sangat penting untuk menjaga kesehatan secara keseluruhan.

Defisiensi vitamin C dapat mengakibatkan berbagai masalah kesehatan,

termasuk skorbut, yang ditandai dengan gejala seperti keldahan, nyeri sendi, dan pembengkakan gusi. Oleh karena itu, penting untuk memastikan bahwa pola makan sehari-hari mencakup sumber-sumber makanan yang kaya akan vitamin C. Berbagai buah dan sayuran, seperti jeruk, kiwi, paprika, serta bawang dayak dan jambu, dikenal sebagai sumber vitamin C yang baik. Namun, kadar vitamin C dalam makanan ini dapat bervariasi tergantung pada beberapa faktor, termasuk jenis tanaman, teknik pengolahan, dan kondisi lingkungan tempat tumbuh.

Dalam konteks kesehatan masyarakat, pemahaman yang mendalam tentang kadar vitamin C dalam berbagai sumber makanan sangat penting untuk merancang program

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