BIOMEDICAL RESEARCH SERVICE, UNIVERSITY AT BUFFALO

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Advanced glycation end product (AGE)-BSA (Cat #: A-122)

COMPONENTS: AGE-BSA: 1 ml (25 mg/ml), store at -20℃

PRODUCT DESCRIPTION: Glycation is a non-enzymatic reaction between reducing sugars and proteins, lipids or DNA/RNA, generating advanced glycation end products (AGEs). The glycation reaction, aka Maillard or browning reaction, begins with formation of Schiff base and the Amadori product, a 1-amino-1-deoxyketose, which is produced by the chemical reaction between the sugar carbonyl group and the amino group of macromolecules. AGEs bind to specific cellular receptors such as RAGE and TLR4, triggering production of inflammatory cytokines. AGEs are elevated in diabetes but also during aging. The AGE is a conjugate of bovine serum albumin (BSA) and glucose.