

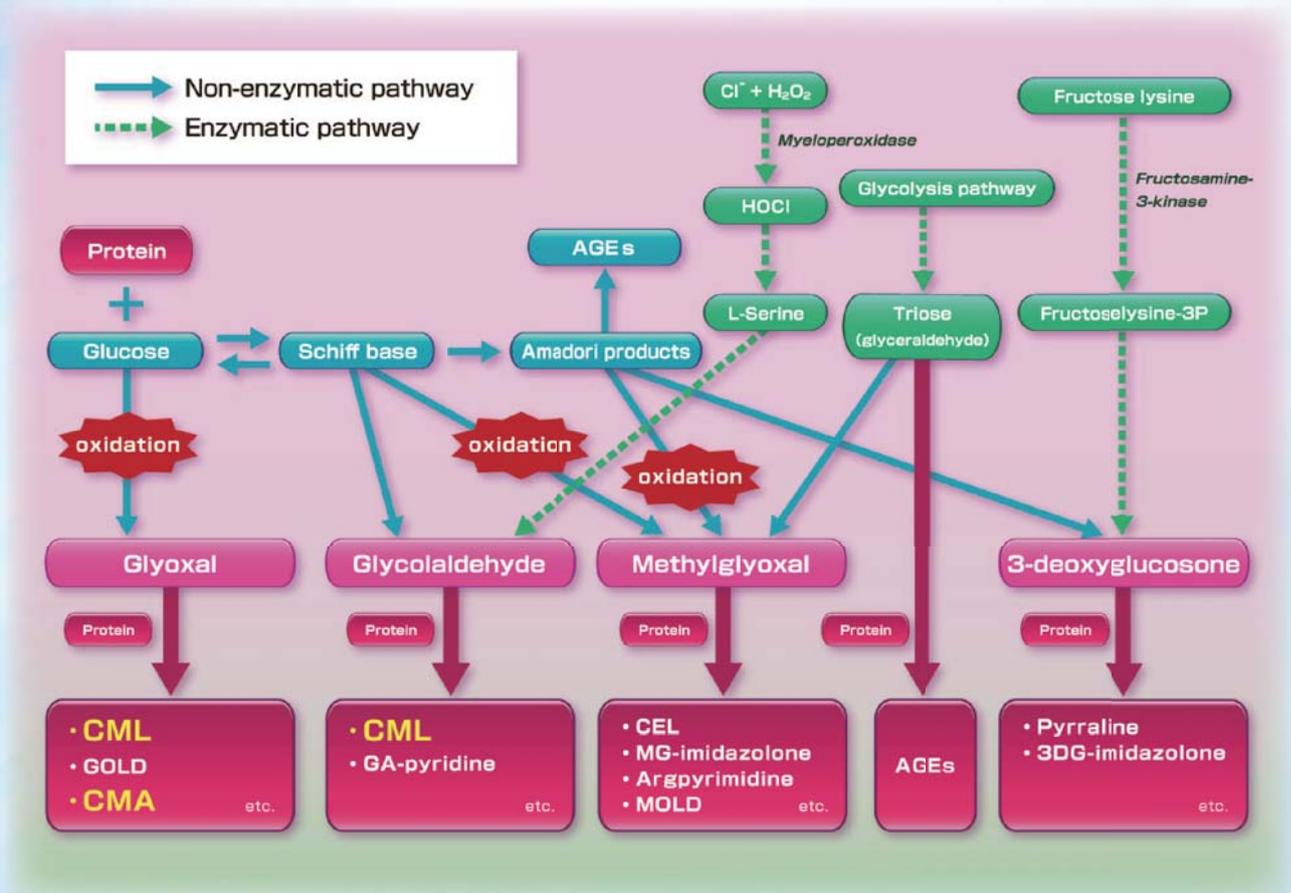
AGEs

Aging/Glycation Assay

Measure the inhibitory effect of CML or CMA formation!

Collagen AGEs Assay Kit, CML-specific provides rapid detection of CML formed by glycation with glyoxal on a collagen coating plate.

Collagen AGEs Assay Kit, CMA-specific provides rapid detection of CMA formed by glycation with glyoxal on a collagen coating plate.



Although carbohydrates are indispensable for ATP production, excess amounts of carbohydrates modify amino residues of amino acids such as lysine and arginine, and results in the irreversible functional disorders of proteins by changing the three-dimensional structure and net negative charge in patients with disordered metabolism. Since this reaction was first reported by Louis Camille Maillard in 1912, the reaction is referred to as the “Maillard reaction” , or glycation.

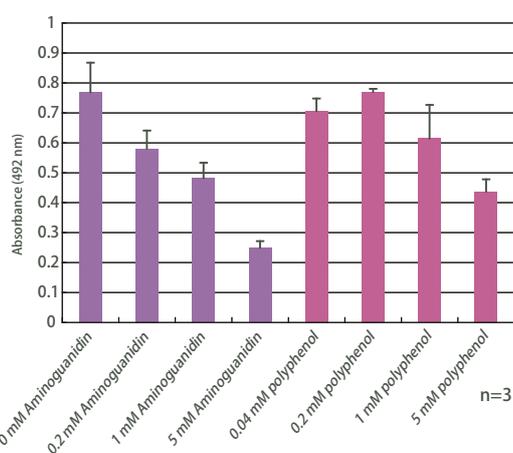
The Maillard reaction is divided by early and advanced stages. The early stage generates Amadori rearrangement products, such as haemoglobin A1c, whereas the advanced stage generates AGEs (advanced glycation end products), characterized by colour in brown and protein cross-linking. Collagen, the structural protein that forms skin, blood vessel walls and bone, also undergo glycation reaction.

Features

- These kits provide rapid detection of CML or CMA formed by glycation with glyoxal on a collagen coating plate. Inhibitory effect of CML and CMA formation by each sample can be easily measured.
- Suitable for research on functional foods and cosmetic materials which have anti-aging or anti-glycation activity.

Collagen AGEs Assay Kit, CML-specific

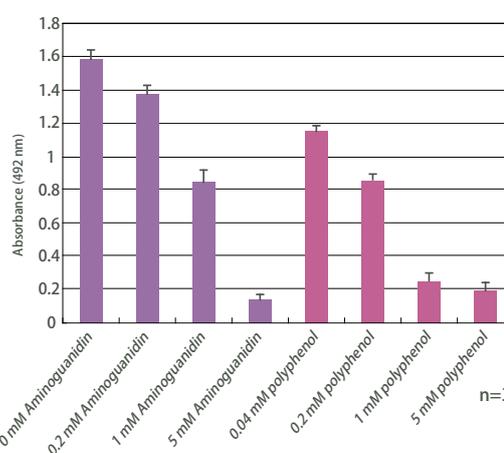
Typical Example



Inhibitory effect of aminoguanidine and phytochemicals on CML formation.
(10 mM Glyoxal, glycation for 1 day)

Collagen AGEs Assay Kit, CMA-specific

Typical Example



Inhibitory effect of aminoguanidine and phytochemicals on CMA formation.
(2 mM Glyoxal, glycation for 7 days)

Kit components*

- 96-well Collagen coated plate – One strip-well plate
- Microplate seal – 2 sheets
- Anti-CML Antibody (100X) 100 μ L (CSR-AAS- AGE-K02E)
OR
Anti-CMA Antibody (100X) 100 μ L (CSR-AAS- AGE-K03E)
- Blocking Buffer 50 mL
- HRP Conjugate Secondary Antibody (100X) 100 μ L
- Sample Dilution Buffer 30 mL

- Washing Buffer (10X) 50 mL
- Substrate Solution 10 mL
- Stop Solution 10 mL
- Glyoxal Solution 5 mL
- Aminoguanidin Solution (10 mM)**
- ** positive control 250 μ L

* The kit provides sufficient reagents to perform up to 96 assays.
Store the 96-well collagen coated plate at -20 °C for the long term storage.

| Description | Cat. No. | Size | Storage |
|--|------------------|---------------------------------|---------|
| Collagen AGEs Assay Kit, CML-Specific, Glyoxal | CSR-AAS-AGE-K02E | 1 kit (96 well \times 1 test) | 4°C |
| Collagen AGEs Assay Kit, CMA-Specific, Glyoxal | CSR-AAS-AGE-K03E | 1 kit (96 well \times 1 test) | 4°C |

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