

Your reliable tool for fast and easy
determination of transglutaminase activity:

ZediXclusive Microbial Transglutaminase Assay Kit

Format:	3 x 11 cuvette-based assays	Detection method:	Chromogenic at 525 nm (red)
Type:	End-point measurement	Kit contains:	Activity reagent, stop-solution, positive control
Assay-time:	15 min only		



Assay characteristics:

- ↳ Easy to use chromogenic endpoint assay
- ↳ Robust
- ↳ Reliable
- ↳ Short measurement time
- ↳ Validation protocol available

Microbial Transglutaminase

Transglutaminase (EC 2.3.2.13) is an enzyme which cross-links proteins via the formation of covalent bonds between the protein bound amino acids glutamine and lysine.

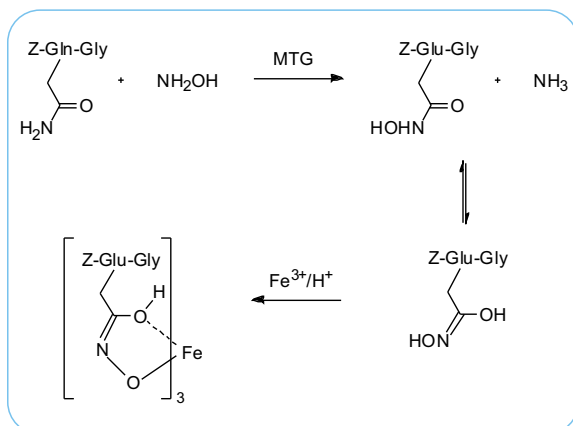
In **food industry** Microbial Transglutaminase (MTG) is widely used to improve the physical properties and taste of various protein containing foods. Application areas are milk and dairy products; meat, sausages and hams; fish and shrimps; and pasta and bakery products.

Optimal and batch independent product quality upon transglutaminase treatment requires the addition of a defined amount of transglutaminase.

Principle of the Kit

The Microbial Transglutaminase Assay Kit uses Z-Gln-Gly as the glutamine donor substrate and hydroxylamine as amine. In the presence of microbial transglutaminase hydroxyl-amine is incorporated forming Z-glutamyl-hydroxamate-glycine which develops a colored complex with iron (III) detectable at 525 nm.

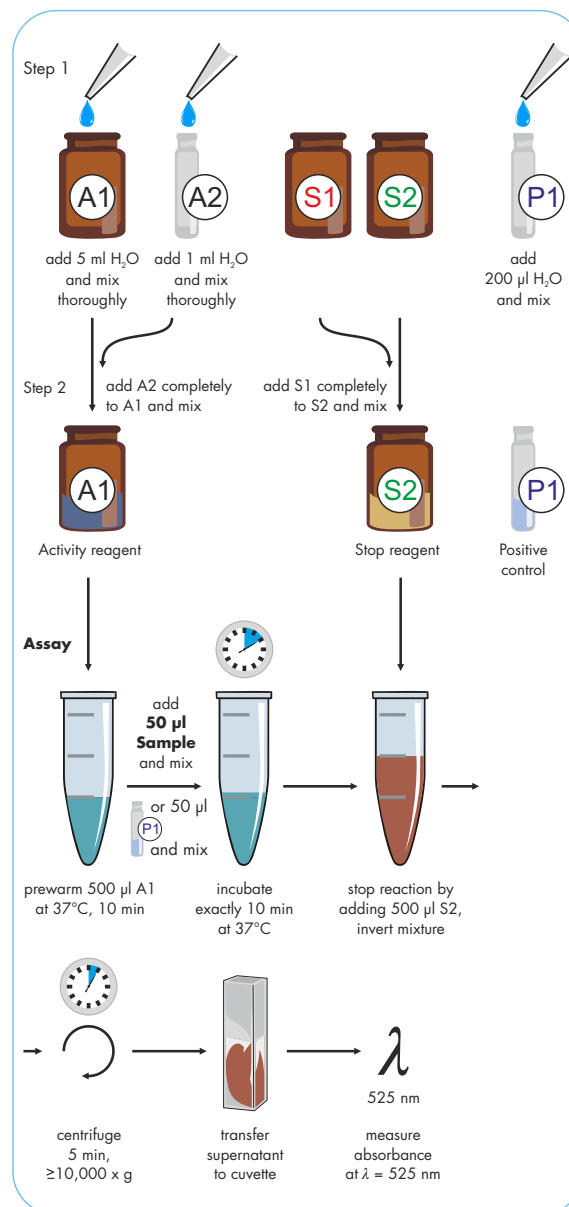
Assay reaction



References

- (1) Lorand L., Konishi K., Jacobsen A., Nature 1962;194:1148-1149.
- (2) Grossowicz N, Wainfan E, Borek E, Waelsch H., J Biol Chem. 1950 Nov;187(1):111-25.
- (3) Folk, J. E. und Cole, P. W., Biochim. Biophys. Acta 1966, 122, 244-64.

Assay procedure



Art. No.	Name	Quantity	Price
2009	ZediXclusive Microbial Transglutaminase Assay Kit	1 Kit	295 €



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