



Determination of MTG activity

Microbial transglutaminase (MTG) preparations are able to modulate the physical and textural properties of various foods containing proteins. MTG is a processing aid widely used to improve meat, fish, and dairy products. Zedira offers the measurement of transglutaminase activity supporting your quality assurance.

What is the activity assay principle?

The Hydroxamate Assay uses Z-Gln-Gly as the amine acceptor substrate and hydroxylamine as amine donor. In the presence of MTG hydroxylamine is incorporated into Z-Gln-Gly to form Z-glutamyl-hydroxamate-glycine resulting in a red colored complex with iron (III) which is detectable at 525 nm.

One unit of microbial transglutaminase activity is defined as the amount of enzyme, which causes the formation of 1.0 μ mole of hydroxamate per minute at 37°C (Folk and Cole, 1966).

How to send your sample?

Please send **at least 50 g of your sample** using a carrier of your choice (e.g. FedEx, DHL or TNT).

Please send it to the address given below and **inform us via e-mail** about your shipment (contact@zedira.com) as well as provide some characteristics of your sample, e.g. expected activity range.

How long does the measurement take?

We aim to provide our service as fast as possible. After receiving your sample, we will provide you with a certificate of analysis via e-mail **within 1-2 working days**.

How do you receive your results?

Your sample is going to be measured in two independent measurements with triplicates each. Our internal quality standards require maximal inter-assay and intra-assay deviations of 5%.

Zedira provides you with an **certificate of analysis** for your sample including **results given in U/g**.

Do you have further questions?

In case of any questions please do not hesitate contacting us via e-mail (contact@zedira.com) or phone (**+49 6151 3251 00**)

Who is Zedira?

Zedira is a biotech company specialised in transglutaminase. Zedira is a global brand for numerous unique and high quality specialty reagents for research & development as well as diagnostics in the transglutaminase field.



Zedira GmbH
Roesslerstrasse 83
64293 Darmstadt
Germany

Phone +49 6151 3251 00
Fax +49 6151 3251 19
E-mail contact@zedira.com
Web www.zedira.com
