



Agglomeration assay for the rapid on-site-detection

Sudden deviations from normal hinder us again and again in daily life. Often it is then desirable to obtain rapid information on confounding factors in order to confirm or refute suspicions and thus respond promptly. A visual check, read over the phone, can help with the first information here.

Based on the principle of the immunoassay, specific binding reactions in solution are initiated and then visualized by the formation of defined agglomerates. The cross-linking and thus the presence of the event is evidenced by a shift of the absorption spectrum - a color change e.g. from red to blue, which is to be detected with the help of a smartphone camera. These assays work particularly well in the competitive format and can be made accessible through other selection procedures.

We offer:

- Production of assay specific gold nanoparticles of different sizes (Fig coated particles)
- Development of agglomeration assay based on gold nanoparticles with easy-to-use and cost-effective evaluation via smartphone



**Fraunhofer Institute for Cell
Therapy and Immunology IZI**

**Fraunhofer IZI-BB
Branch Bioanalytics and
Bioprocesses**

Am Mühlenberg 13
14476 Potsdam, Germany

Contact

Dr. Eva Ehrentreich-Förster
Tel. +49 (0) 331- 58187 203
Fax +49 (0) 331- 58187 299
Eva.Ehrentreich@izi-bb.fraunhofer.de

www.izi.fraunhofer.de