



# Gwent Group

**GWENT GROUP**  
ADVANCED MATERIAL SYSTEMS

## Applied Enzyme Technology Ltd. / **METALOR**<sup>®</sup>

### New Colloidal Gold Products and Antibody Conjugation Service

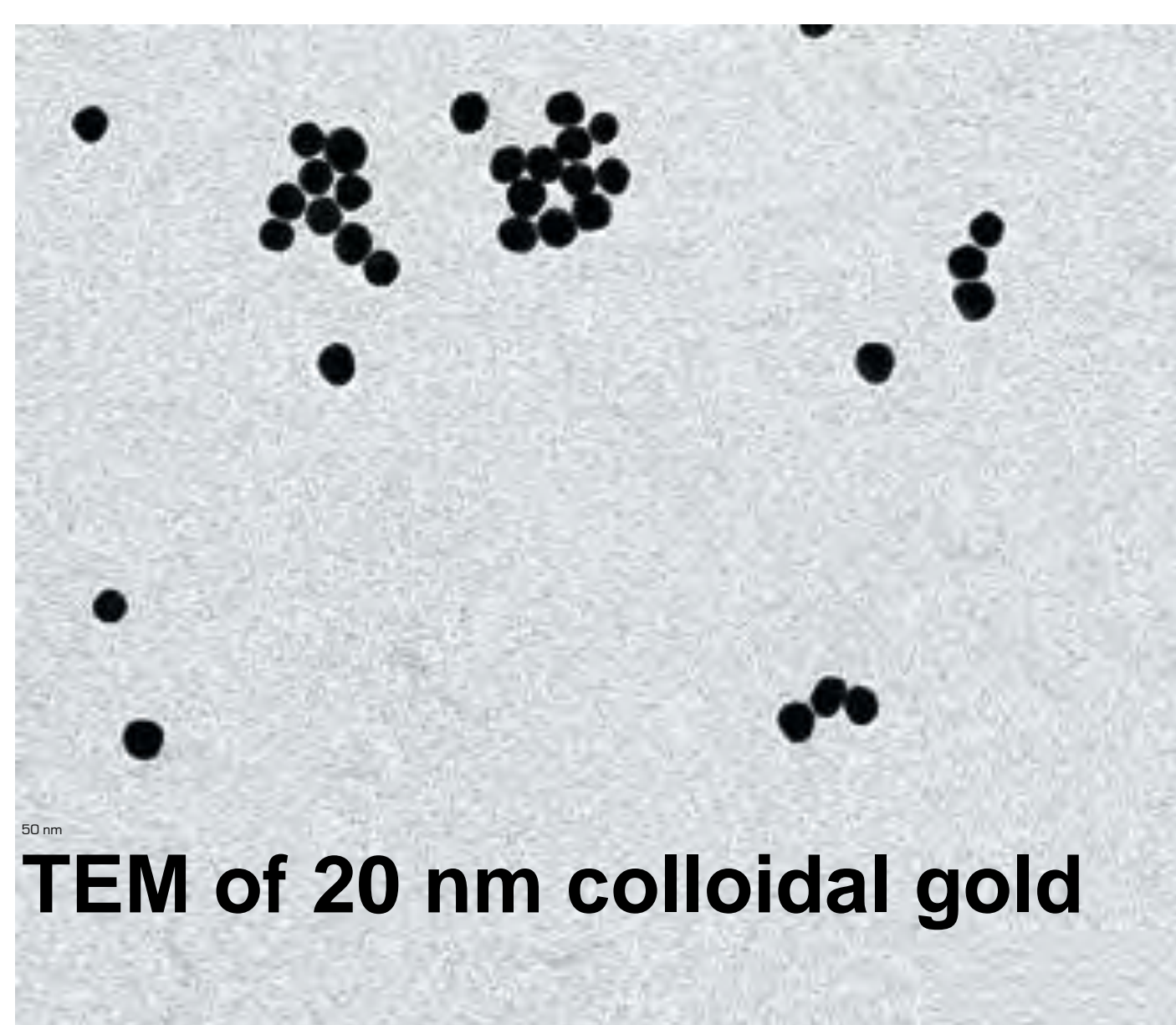
Applied Enzyme Technology Ltd. is the official distributor of the **METALOR**<sup>®</sup> colloidal Gold Range. This includes AET delivering a the custom antibody conjugation service on the **METALOR**<sup>®</sup> colloidal gold products for customers.

### **METALOR**<sup>®</sup> Technologies SA

The Metalor Technologies Group, based in Neuchâtel in Switzerland with subsidiaries in 15 countries worldwide, is active in the field of precious metals and advanced materials. The company is one of the world leaders in precious metal refining and can achieve purity levels of higher than 99.999%.

Precious metals used at Metalor:

- Gold (Au)
- Platinum (Pt)
- Palladium (Pd)
- Silver (Ag)
- Rhodium (Rh)
- Ruthenium (Ru)
- Iridium (Ir)



TEM of 20 nm colloidal gold



### Colloidal Golds

Metalor manufactures colloidal gold from high purity gold salts which exhibit superior labelling properties in rapid test diagnostic applications. These are the properties which distinguish Metalor gold colloids:

- High purity
- High sensitivity
- High stability

Each batch is systematically controlled: absorbance, size, particle size distribution (PSD) and uniform spherical shape are analysed.

### Size Available

10 nm, 20 nm, 30 nm, 40 nm

### Size Distribution

80% of the particles within  $\pm 5$  nm

### Optical Density

Peak at 520 - 530 nm (10 - 40 nm)

### Solvent

Purified water

### Precious Metal Colloids

Metalor has developed other precious metal colloids such as silver aimed at the diagnostic industry. Further precious metal colloids of varying shapes and composition can be requested. Customers can also benefit from upscaling studies as well as projects with full technical support.

