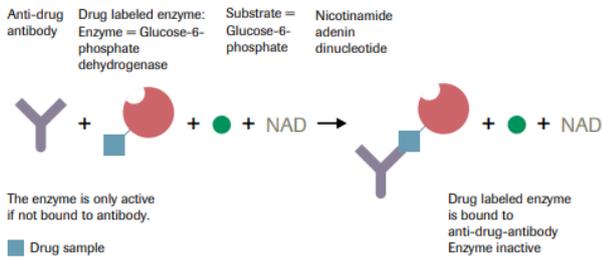


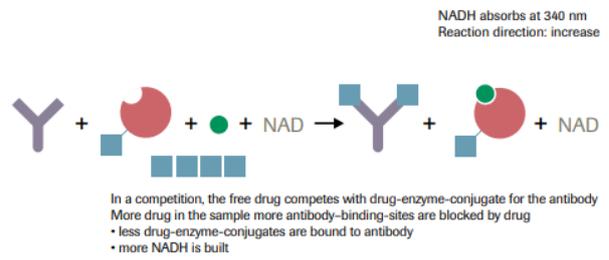
File S1. The principle of a clinical standard homogeneous enzyme immunoassay method for vancomycin.

Test principle: Homogeneous enzyme immunoassay technique (EMIT)

No drug in the sample



Drug in the sample



- The assay is based on competition between drug in the sample and drug labeled with the enzyme glucose-6-phosphate dehydrogenase (G6PDH) for antibody binding sites
- Enzyme activity decreases upon binding to the antibody, so the drug concentration in the sample can be measured in terms of enzyme activity
- Active enzyme converts oxidized NAD to NADH, resulting in an absorbance change that is measured spectrophotometrically