

WHEAT GERM COATED SURFACE

TECHNICAL NOTE N. 17

General procedure for binding a biomolecule to Wheat Germ coated surface

- 1. Dilute your biomolecule (sample) to 0.5- 5 μ g/ml in an appropriate neutral pH buffer (buffer should contain 1mM Ca⁺⁺ and 1mM Mn⁺⁺; in fact these ions promote the interaction between saccharide groups and Wheat Germ coated surface)
- 2. Proceed with incubation: conditions depend on biomolecule structure
- 3. Wash four times to remove the unbound material
- 4. Proceed with your specific test: to point out the bound biomolecule and/or to use the bound biomolecule to point out a specific counter molecule

Example of test: binding specificity of Wheat Germ coated plates

- Dilute AHIgG-Pod from 100 ng/ml to 12.5 ng/ml in pure distilled water containing 1 mM CaCl₂•2 H₂O + 1 mM MnCl₂•4 H₂O
- 2. Add 100μ l of each solution to the wells of Wheat Germ coated plate and incubate 30' R.T.; add the same solutions to albumin coated plate as comparison for evaluate the specificity of binding
- 3. Leave blank wells as control
- 4. Empty the wells and wash with 0.1M PBS pH 7.2 + 0.05% Tween[®] 20 four times
- 5. Add 100 μ l /well of TMB substrate solution and incubate 10 minutes at room temperature
- 6. Stop the substrate reaction by adding $100 \mu l$ of sulphuric acid 1 N and read the optical density at 450 nm

Binding specificity of wheat germ coated plates

