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- mixing the released ATP with luciferin-luciferase reagent, and determining the amount of released ATP by means of a luminometer.
- 3. The process of claim 1, further including the steps of washing the substrate before and after contact with the second fluid.
- 4. The process of claim 1, wherein the solid support is a bead.
- 5. The process of claim 1, wherein the solid support is a strip.
- 6. The process of claim 1, wherein the solid support is a membrane.
- 7. The process of claim 1, wherein said analyte is a DNA probe.
- 8. The process of claim 1, wherein the compound bonded to the liposome is capable of binding the analyte.
- 9. The process of claim 8, wherein upon testing, the presence of analyte is indicated by a significant presence of ATP.
- 10. The process of claim 8 further including the step of prior to said testing for ATP, filtering said second fluid to remove liposomes which do not bind to said analyte.
- 11. The process of claim 1, wherein the compound bonded to the liposome is capable of binding to the receptors on the solid support.
- 12. The process of claim 11, wherein upon testing, the presence of analyte is indicated by the relative absence of ATP.
- 13. The process of claim 11, further including the step of prior to said testing for ATP, filtering said second fluid to remove liposomes which do not bind to the receptors.
- 14. A process for determining the presence of hybridized DNA comprising the steps of: providing a first fluid comprising at least one DNA probe, said DNA probe having bonded thereto a

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- first compound, wherein said first compound is ligand, ligand analog, or antiligand,
- combining said first fluid with a second fluid suspected of containing complementary DNA, said complementary DNA is complementary to said at least one DNA probe.
- immobilizing, on a support, any hybridized DNA formed from combining said first fluid with said second fluid,
- contacting said support and said any immobilized hybridized DNA with a third fluid comprising ATP encapsulated within the walls of liposomes, said liposomes having bonded thereto a second compound, said second compound is a ligand, ligand analog, or antiligand, which is capable of binding said first compound, and testing for the presence of ATP associated with the support.
- 15. The process of claim 14, wherein the step of testing for the presence of ATP includes the steps of: contacting the solid support and said any immobilized hybridized DNA with a reagent capable of releasing the ATP from liposomes, mixing the released ATP with luciferin-luciferase reagent, and determining the amount of released ATP by means of a luminometer.
- 16. The process of claim 14, wherein said first and second compounds are biotin and avidin.
- 17. The process of claim 14, wherein said first and second compounds are fluorescein and antiluorescein.
- 18. The process of claim 14, wherein said first and second compounds are a hapten and an antibody specific to said hapten.
- 19. The process of claim 14, wherein said first and second compounds are a lectin and a sugar moiety-containing compound which will bind to said lectin.

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