We claim:

1. A kit to detect biological reactions, said kit comprising:

(a) one or more container(s),

(b) biological reaction reagents, and

(c) at least one pH indicator dye selected from the group consisting of potassium l-hydroxyl-4- [4-(hydroxyethylsulphonyl)-phenylazo]-naphthalene-2-sulphonate, 4-[4-(2-hydroxylethanesulfonyl)-phenylazo]-2,6-dimethoxyphenol , any reactive vinylsulphonyl dye and any combination thereof, and

wherein the at least one pH indicator dye is immobilized on surface of a film, tube wall or on three-dimensional objects, hydrogels and/or beads.

2. The kit according to claim 1, wherein said biological reaction measured is an enzymatic reaction.

3. The kit according to claim 1, wherein said biological reaction is nucleic acid amplification.

4. The kit according to claim 1, wherein the pH indicator dye is in solution, lyophilized with said reagents, is pre-mixed in a cocktail solution or is added after the reaction with beads containing said dye on them.

5. A device for detecting a biological reaction, said device comprising:

a reaction chamber;

at least one thermal unit; and

a magnet, metal block or magnetic beads, wherein said magnet, said metal block or said magnetic beads are located in a separate chamber or the reaction chamber, and wherein said magnet or said metal block can be moved at various points of the reaction.

6. The device according to claim 5 wherein the thermal unit is a heater, a chiller or both.

7. The device according to claim 6 additionally comprising at least one opening for reading results.

8. The device according to claim 6 additionally comprising at least one sensor for reading the result.

9. The device according to claim 8, additionally comprising at least one monitor for displaying the result.

10. The device according to claim 9 wherein the opening has at least one light guide.

11. The device according to claim 10 additionally comprising at least one light source and at least one colour sensor as part of the device.

12. The device according to claim 5 wherein said reaction chamber has a pH indicator dye.

13. The device according to claim 12 wherein the device either has said dye located on one or more beads or said dye is not located on the beads.

14. The device according to claim 13, wherein said beads have dye on them; said dye is in solution with magnetic beads; or said magnetic beads have dye on them.

15. The device according to claim 13, wherein said dye has a paramagnetic or ferromagnetic component.

16. The device according to claim 5 wherein the thermal unit contains a liquid wax or water bath as a thermal medium and the metal block is contained within the thermal unit.

17. The device according to claim 16, wherein the connection between a monitor and the device is wired or wireless.

18. The device according to claim 17, wherein the monitor is a portable device.

19. The device according to claim 18 wherein the portable device is a phone or tablet computer.

20. A device to measure a biological reaction, said device comprising;

a) a light source;

b) a light guide;

c) a colour sensor;

d) a thermal unit for heating, cooling or both;

e) a thermal sensor;

f) one or more reaction chambers containing a reaction solution and beads;

g) an external magnet or metal block or magnetic beads within the one or more reaction chambers;

h) a data port to connect the device to a read ready device; and a

i) heating medium;

wherein said device analyzes measures and records the biological reaction, and wherein said light source and colour sensor are located and guided through the same light guide.

21. The device according to claim 20, additionally comprising a display unit for instructions to use the device and display the results.

22. The device according to claim 21, additionally comprising lights on the device to provide instructions and display the results.

23. The device of claim 22 as a component of a kit to analyze nucleic acid reactions, said kit comprising said device, and containing at least one pH indicator dye.

24. The device of claim 23 as a component of a kit to analyze enzymatic reactions, said kit comprising said device, and containing at least one pH indicator dye.

25. The device according to claim 20 additionally comprising:

a computer with artificial intelligence configured to perform one or more functions selected from the group consisting of the ability to measure and/or determine when the reaction being run has come to an end or has been completed, to take measurements of a positive control of the reaction being measured, negative, negative control of the reaction being measured and/or both positive and negative controls, and to print and/or to illustrate instructions to individuals using said device in order to continue with the reactions based on real time observations.

26. A kit to detect biological reactions, said kit comprising:

at least one pH indicator dye; and

a device for carrying out a reaction of the kit,

wherein the pH indicator dye is selected from the group consisting of potassium l-hydroxy-4- [4-(hydroxyethylsulphonyl)-phenylazo]-naphthalene-2-sulphonate, 4-[4-(2-hydroxyethanesulfonyl)-phenylazo]-2,6-dimethoxyphenol, any reactive vinylsulphonyl dye and any combinations thereof.

27. The kit according to claim 3, additionally comprising: a pH indicator surface selected from the group consisting of cellulose polymer, hydrogel, metal oxide, polymers or combinations thereof.

28. The kit according to claim 27, wherein the reaction is measured by the detection of pattern changes of the dye.

29. The kit according to claim 28, wherein the pH indicator surface is one or more discrete objects in the reaction or in the reaction container.

30. The kit according to claim 29, additionally comprising a hydrogel selected from the group consisting of Poly(2-hydroxyethyl methacrylate) (PHEMA) , Polyurethane (PU), Poly(ethylene glycol) (PEG), polyethylene glycol methacrylate (PEGMA), polyethylene glycol dimethacrylate (PEGDMA), polyethylene glycol diacrylate (PEGDA), Poly (vinyl alcohol) (PVA), Polyvinyl pyrrolidone) (PVP), or Polyimide (PI).

31. The kit according to claim 30, additionally comprising: one or more discrete objects selected from paramagnetic or ferromagnetic components.

32. The kit according to claim 26, further comprising reagents for the biological reaction.

33. The kit according to claim 26, further comprising reagents for biological reaction for nucleotide identification.

34. The kit according to claim 32, wherein the reagent is lyophilized.

35. The kit according to claim 32, wherein the reagent is pre-mixed in a cocktail solution.

36. The kit according to claim 26, wherein the kit is used to detect biological reactions, said kit further comprises (a) one or more container(s), (b) reagents for enzymatic reactions, and (c) at least one pH indicator dye.

37. The kit according to claim 36, wherein the kit additionally has a device for measuring biological reactions of said kit, comprising: (a) a reaction chamber, (b) at least one thermal unit used, and (c) a sensor for measuring changes to the biological reaction.

38. The kit according to claim 37, wherein the reaction is measured by detection of pattern changes of the dye.

39. The kit according to claim 37, the kit further comprising a heater, chiller or both, further comprising a paramagnetic pH indicator dye and an external magnet, and at least one opening for reading the results and at least one sensor for reading the result.

40. The kit according to claim 36, further comprising a paramagnetic pH indicator dye and an external magnet.

41. The kit according to claim 40 wherein the indicator dye is controlled by a magnet outside the container.

42. The kit according to claim 26 wherein a water bath or wax is additionally added when an isothermal reaction is measured.