

17. The method of claim **1**, wherein detecting the biological analyte comprises detecting the biological analyte genetically.

18. The method of claim **1**, wherein detecting the biological analyte comprises detecting an enzyme released from a live cell in the sample.

19. The method of claim **18**, wherein the enzyme comprises adenylate kinase enzyme activity.

20. (canceled)

21. A unitary sample preparation and detection device, comprising:

a housing comprising at least two receptacles with a passageway therebetween;

wherein an upper receptacle comprises an opening configured to receive a sample and a cell concentration agent disposed therein;

wherein a lower receptacle includes a detection reagent disposed therein;

means for isolating the upper receptacle from the lower receptacle; and

means for transferring the cell concentration agent from the upper receptacle to the lower receptacle.

22. The device of claim **21**, wherein the cell concentration agent comprises a particulate or dispersed cell concentration agent.

23. The device of claim **21**, wherein the means for isolating the upper and lower receptacles of the housing includes a plunger, a valve, or a frangible seal.

24. The device of claim **21**, wherein the means for transferring the cell concentration agent from the upper receptacle to the lower receptacle of the housing includes a plunger, a swab, or a valve.

25. The device of claim **21**, wherein the device comprises a tapered inner wall.

26. The device of claim **21**, further comprising a hydrogel comprising a cell extractant.

27-28. (canceled)

29. The device of claim **21**, wherein the housing further comprises a third receptacle.

30-31. (canceled)

32. The device of claim **21**, further comprising a plunger.

33. The device of claim **32**, wherein the plunger comprises a fluid pathway.

34-37. (canceled)

38. A kit comprising:

a housing comprising at least two receptacles with a passageway therebetween;

wherein an upper receptacle comprises an opening configured to receive a sample;

wherein a lower receptacle comprises a detection reagent disposed therein;

means for isolating the upper receptacle from the lower receptacle;

a cell concentration agent; and

means for transferring the cell concentration agent from the upper receptacle to the lower receptacle.

39. The kit of claim **38**, wherein the housing comprises the means for isolating the upper receptacle from the lower receptacle.

40. The kit of claim **38**, wherein the housing comprises the means for transferring the cell concentration agent from the upper receptacle to the lower receptacle.

41. The kit of claim **38**, wherein the cell concentration agent is disposed in the upper receptacle of the housing.

42. (canceled)

43. The kit of claim **38**, further comprising a hydrogel comprising a microbial cell extractant.

44-45. (canceled)

46. The kit of claim **38**, further comprising a plunger.

47. The kit of claim **46**, wherein the plunger comprises a fluid pathway.

48-51. (canceled)

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