What Is Claimed Is:

1. An opposing-electrode sensor comprising a working electrode, a counter electrode, and an electrochemical substrate, wherein the sensor detects cleavage of the electrochemical substrate.

2. The sensor of claim 1, wherein the electrochemical substrate is not immobilized on the working electrode.

3. The sensor of claim 1, wherein the electrochemical substrate is a substrate for thrombin comprising a peptide bound to a leaving group that becomes electroactive once cleaved by thrombin.

4. The sensor of claim 1, further comprising a meter connected to the sensor, wherein the meter determines a coagulation time for a sample being tested.

5. The sensor of claim 4, wherein the meter displays or outputs a result comprising the coagulation time or a result or value dependent upon the coagulation time.

6. The sensor of claim 1, further comprising a meter connected to the sensor, wherein the meter displays or outputs a result comprising a parameter of thrombin generation in the sample tested.

7. A test strip for measuring blood or plasma coagulation time in a sample comprising an opposing-electrode sensor comprising a working electrode, a counter electrode, and an electrochemical substrate, wherein the sensor detects cleavage of the electrochemical substrate.

8. The test strip of claim 7, wherein the electrochemical substrate in the sensor is not immobilized on the working electrode.

9. The test strip of claim 7, wherein the substrate in the sensor is a substrate for thrombin comprising a peptide bound to a leaving group that becomes electroactive once cleaved by thrombin.

10. The test strip of claim 7, further comprising a meter connected to the sensor, wherein the meter determines a coagulation time for a sample being tested.

11. The test strip of claim 10, wherein the meter displays or outputs a result comprising the coagulation time or a result or value dependent upon the coagulation time.

12. The test strip of claim 7, further comprising a meter connected to the sensor, wherein the meter displays or outputs a result comprising a parameter of thrombin generation in the sample tested.

13. The test strip of claim 7, further comprises means for verifying strip integrity.

14. A method of measuring blood or plasma coagulation comprising:

obtaining a blood sample;

adding the blood sample to an opposing-electrode sensor comprising a working electrode, a counter electrode, and an electrochemical substrate, wherein the sensor detects cleavage of the electrochemical substrate; and

analyzing the sample using the sensor to determine at least one blood or plasma coagulation property of the sample.

15. The method of claim 14, wherein the method is performed at the point of care.

16. The method of claim 14, wherein the method further comprises a meter connected to the sensor, wherein the meter displays or outputs a result comprising a parameter of thrombin generation in the sample tested.

17. The method of claim 14, wherein the patient is taking an anticoagulant medication.

18. The method of claim 17, wherein the anticoagulant medication is a vitamin K antagonist.

19. The method of claim 14, wherein the sample is obtained from a patient by a finger prick of the patient.

What is claimed is:

1. An opposing-electrode sensor comprising a working electrode, a counter electrode, an activator, and an electrochemical thrombin substrate, wherein the activator and the electrochemical thrombin substrate are coated on opposing surfaces of the working electrode and the counter electrode, wherein the sensor detects cleavage of the electrochemical thrombin substrate in the presence of a sample.

2. The sensor of claim 1, wherein the electrochemical thrombin substrate is not immobilized on the working electrode.

3. The sensor of claim 1 or claim 2, wherein the electrochemical thrombin substrate comprises a peptide bound to a leaving group that becomes electroactive once cleaved by thrombin.

4. The sensor of any one of claims 1 to 3, further comprising a meter connected to the sensor, wherein the meter determines a coagulation time for the sample.

5. The sensor of claim 4, wherein the meter displays or outputs a result comprising the coagulation time or a result or value dependent upon the coagulation time.

6. The sensor of any one of claims 1 to 5, further comprising a meter connected to the sensor, wherein the meter displays or outputs a result comprising a parameter of thrombin generation in the sample.

7. A test strip for measuring blood or plasma coagulation time in a sample, wherein the test strip comprises a sensor of any one of claims 1 to 6.

8. The test strip of claim 7, further comprising a means for verifying strip integrity.

9. A method of measuring blood or plasma coagulation comprising:

obtaining a blood sample from a patient;

adding the blood sample to an opposing-electrode sensor comprising a working electrode, a counter electrode, an activator, and an electrochemical thrombin substrate, wherein the activator and the electrochemical thrombin substrate are coated on opposing

surfaces of the working electrode and the counter electrode, wherein the sensor detects cleavage of the electrochemical thrombin substrate; and

analyzing the sample using the sensor to determine at least one blood or plasma coagulation property of the sample.

10. The method of claim 9, wherein the method is performed at the point of care.

11. The method of claim 9 or claim 10, wherein the method further comprises a meter connected to the sensor, wherein the meter displays or outputs a result comprising a parameter of thrombin generation in the sample.

12. The method of any one of claims 9 to 11, wherein the patient is taking an anticoagulant medication.

13. The method of claim 12, wherein the anticoagulant medication is a vitamin K antagonist.

14. The method of any one of claims 9 to 13, wherein the sample is obtained from the patient by a finger prick of the patient.

15. The sensor of claim 1 or the method of claim 9, substantially as hereinbefore described and with reference to any of the Examples and/or Figures.