18. The system of claim 6, wherein the feedback circuit includes a digital to analogue converter for providing a constant current.

19. A method for operating an electrotransport drug delivery system including a constant current supply, the method comprising:

contacting a patient's skin with an anode and cathode to form a connection between the anode and cathode;

applying an anode voltage to the anode;

providing a control signal to a transistor connected to the cathode;

detecting a voltage at the transistor with a sensing circuit that is configured to control power at the anode, wherein the cathode is isolated from the voltage detection by the transistor;

comparing the transistor voltage to a threshold voltage; and

controlling the anode voltage applied to the anode based on the comparison between the transistor voltage and the threshold voltage.

20. The method of claim 19, wherein the transistor is a FET and the control signal comprises a voltage applied to a gate of the transistor.

21. The method of claim 19, wherein the anode voltage is applied to the anode in response to an input.

22. The method of claim 19, wherein the control signal applied to the transistor is provided to the transistor by an amplifier, the amplifier isolated from the anode and the cathode by the transistor.

23. The method of claim 19, wherein the current provided from the transistor is a constant current.

18. The system of claim 6, wherein the feedback circuit includes a digital to analogue converter for providing a constant current.