19. The anti-adhesion device of claim 18, wherein receptive tissue to which said device is to be covalently bonded has been treated to convert disulfide groups or primary amino groups on the surface of said tissue to sulfhydryl groups prior to covalent bonding of said substrate material to said tissue.

20. The anti-adhesion device of claim 18 or claim 19, wherein said substrate material comprises collagen.

21. The anti-adhesion device of claim 18, wherein said tissue-selective group is a sulfhydryl-selective group.

22. The anti-adhesion device of claim 18, wherein said tissue-selective functional group is an amine-comprising group.

23. The anti-adhesion device of claim 18 or claim 19, wherein said binding agent comprises a derivative of polyethylene glycol.

24. A method for preventing the formation of an adhesion, comprising the steps of:

(i) providing the anti-adhesion device of claim 18 or claim 19; and

(ii) covalently bonding said anti-adhesion device to receptive tissue.

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