CLAIMS

[Claim 1]

A sheet-shaped cell culture for use in a method for promoting healing of a lumen organ having a damaged part on at least one side of a lumen wall by applying the sheet-shaped cell culture to a corresponding opposite site of the lumen wall of a site in which damage is present.

[Claim 2]

The sheet-shaped cell culture for use according to claim 1, wherein the damage is on an inner portion of the lumen wall, and the sheet-shaped cell culture is applied to a corresponding outer portion of the lumen wall, or the damage is on an outer portion of the lumen wall, and the sheet-shaped cell culture is applied to a corresponding inner portion of the lumen wall.

[Claim 3]

The sheet-shaped cell culture for use according to claim 1, wherein the damage is penetrating damage or non-penetrating damage, wherein if the damage is a penetrating damage, a damaged part on one side of the lumen wall is larger than a damaged part on the other side of the lumen wall.

[Claim 4]

The sheet-shaped cell culture for use according to any one of claims 1 to 3, wherein the lumen organ is an organ of a digestive system.

[Claim 5]

The sheet-shaped cell culture for use according to any one of claims 1 to 4, wherein the damage is caused by dissection of surface tissue of the lumen wall.

[Claim 6]

The sheet-shaped cell culture for use according to any one of claims 1 to 5, comprising a reinforcement layer containing a gel and/or a polymer.

[Claim 7]

The sheet-shaped cell culture for use according to any one of claims 1 to 6, wherein the sheet-shaped cell culture is applied together with a pedunculated blood vessel.

[Claim 8]

The sheet-shaped cell culture for use according to any one of claims 1 to 7, wherein the sheet-shaped cell culture has a thickness of 50 to 500 μm.

[Claim 9]

The sheet-shaped cell culture for use according to any one of claims 1 to 8, wherein the sheet-shaped cell culture contains a cell population having a seeding density of about 7.1×10^5 cells/cm^2 to about 3.0×10^6 cells/cm^2.

[Claim 10]

A sheet-shaped cell culture for use in a method for preventing perforation in a lumen organ after a surgical treatment by applying the sheet-shaped cell culture to a

corresponding opposite site of a treated site of the lumen organ.

[Claim 11]

The sheet-shaped cell culture for use according to claim 10, wherein the surgical treatment is dissection of a mucosa, a muscularis mucosa, and/or a submucosal layer of the lumen organ.

[Claim 12]

The sheet-shaped cell culture for use according to claim 10 or 11, wherein the sheet-shaped cell culture is applied such that the sheet-shaped cell culture entirely covers the corresponding opposite site of the treated site.

[Claim 13]

The sheet-shaped cell culture for use according to any one of claims 10 to 12, wherein the sheet-shaped cell culture is delivered to the corresponding opposite site of the treated site by a delivery device.

[Claim 14]

A sheet-shaped cell culture for use in a method for treating a diseased part on a surface of a lumen wall by:

(a) dissecting the diseased part on the surface of the lumen wall; and

(b) applying the sheet-shaped cell culture to a corresponding opposite portion of a dissected portion obtained in step (a).

[Claim 15]

The sheet-shaped cell culture for use according to claim 14, wherein a disease is cancer.

[Claim 16]

The sheet-shaped cell culture for use according to claim 14 or 15, wherein the dissection of the diseased part on the surface of the lumen wall is dissection of a mucosa, a muscularis mucosa, and/or a submucosal layer having the diseased part.