

WHAT IS CLAIMED IS:

1. A tissue matrix product, comprising:

a flexible sheet comprising a tissue matrix, wherein the flexible sheet includes a group of holes passing through the tissue matrix, wherein the holes are formed in a pattern comprised of a repeating motif of five holes.
2. The product of claim 1, wherein the repeating motif includes a rectangular shape with a hole positioned at each corner of the rectangle and one hole positioned at the center of the rectangle.
3. The product of claim 1 or 2, wherein the flexible sheet has a rectangular shape.
4. The product of any one of claims 1–3, wherein the motif is repeated in at least two columns.
5. The product of claim 4, wherein the motif is repeated in at least three columns.
6. The product of either of claims 4 and 5, wherein the motif is repeated in at least two rows.
7. The product of either of claims 4 and 5, wherein the motif is repeated in at least three rows.
8. The product of either of claims 6 and 7, wherein a distance between each column is greater than a distance between each row.
9. The product of any one of claims 1–8, wherein each hole has a maximum dimension between about 1.5 mm and 2.5 mm.
10. The product of any one of claims 1–9, wherein each hole has a rounded border.
11. The product of any one of claims 1–10, wherein each hole is circular.
12. The product of any one of claims 1–11, wherein the tissue matrix comprises an acellular tissue matrix.

13. The product of any one of claims 1–12, wherein the tissue matrix comprises a dermal tissue matrix.
14. The product of any one of claims 1–13, wherein the tissue matrix is a human tissue matrix.
15. The product of any one of claims 1–13, wherein the tissue matrix is a porcine tissue matrix.
16. The product of any one of claims 1–15, wherein substantially all native cellular material has been removed from the tissue matrix.
17. The product of any one of claims 1–16, wherein the flexible sheet of tissue matrix with the group of holes has a uniaxial tensile strength measured in any direction along the sheet that is at least 60% of the uniaxial tensile strength of a sheet without the group of holes.
18. The product of any one of claims 1–17, wherein the suture retention strength of any one of the holes is at least 80% of the suture retention strength of a region of the tissue matrix without the hole.
19. A tissue matrix product, comprising:
- a flexible sheet comprising a tissue matrix, wherein the flexible sheet includes a group of between 10 and 80 holes passing through the tissue matrix, wherein the flexible sheet comprises a rectangular shape having a width between 10 cm and 30 cm and a length between 10 cm and 30 cm, and the holes have a maximum dimension between about 1.5 mm and 2.5 mm, and wherein the holes are arranged in a pattern such that a uniaxial tensile strength measured in any direction along the sheet is at least 60% of the uniaxial tensile strength of a sheet without the group of holes.
20. A tissue matrix product, comprising:
- a flexible sheet comprising a tissue matrix, wherein the flexible sheet includes a group of between 10 and 80 holes passing through the tissue matrix, wherein the flexible sheet comprises a rectangular shape having a width between 10 cm and 30 cm and a length between 10 cm and 30 cm, and the holes have a maximum dimension between about 1.5 mm and 2.5 mm, and wherein the holes are arranged in a pattern such that a straight line drawn obliquely

across a top or bottom surface of the tissue matrix can pass through no more than three of the holes.