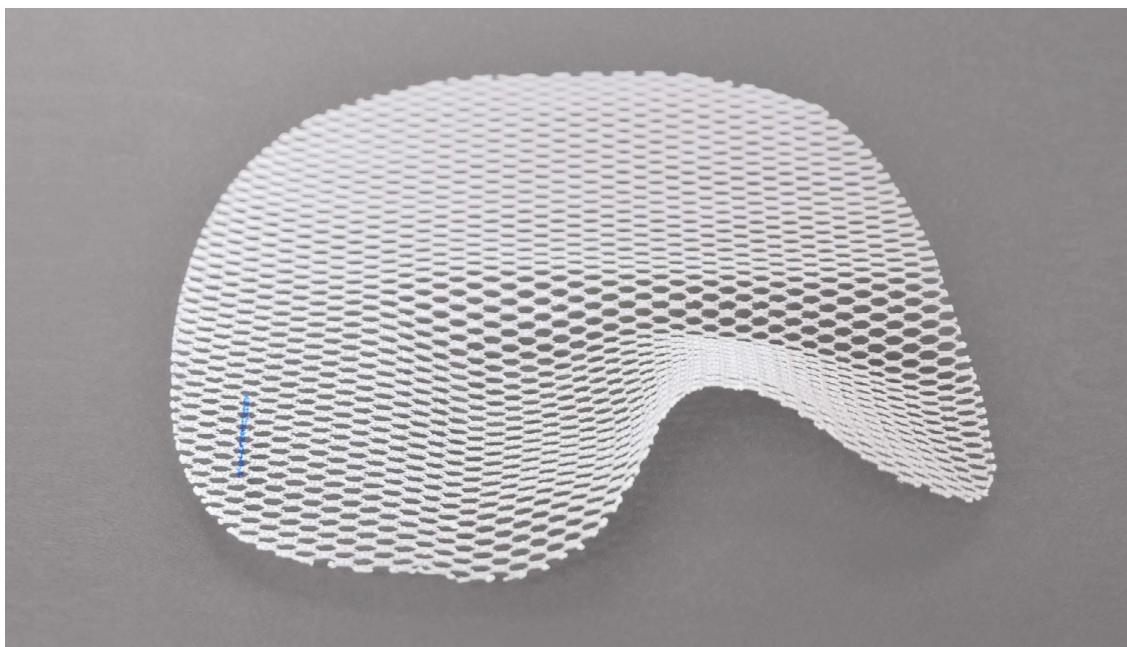




# 4DMESH

Tissue healing makes the difference



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Early strength

Long-term safety and comfort

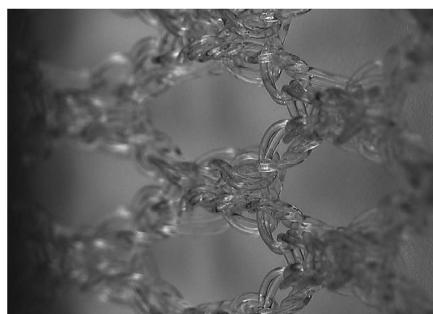
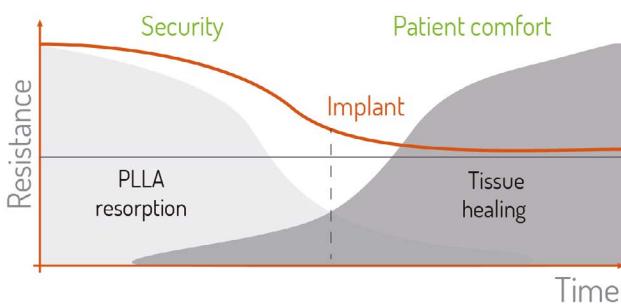
Optimised fibrosis

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# TISSUE HEALING MAKES THE DIFFERENCE

**4DMESH** is a hydrophilic partially resorbable implant, designed for the treatment of inguinal hernias by open and laparoscopic approach.

## PRODUCT'S KEY POINTS



75% PLLA

### Early **strength** and long-term **comfort**

The 4DMesh concept lies in the 75% PLLA resorption which initially provides maximal strength to prevent early recurrences and in the long-term, leaves small amount of material thus persistent tensile strength for patient comfort<sup>(2)</sup>.

### Optimised **fibrosis**<sup>(1)</sup>

PLLA combined to polypropylene leads to an absence of mesh shrinkage and lower inflammation, leading to better tolerance compared to 100% polypropylene meshes.

The in-vivo animal study also shows earlier and higher amount of collagen fibers, thus an earlier support for abdominal wall repair.

### Easy to place<sup>(2)</sup>

Specifically in laparoscopy, thanks to the hydrophilic attribute of PLLA that holds the mesh in place against the abdominal wall.

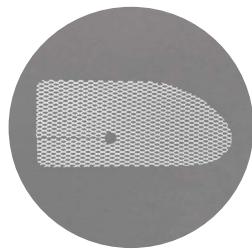
Monofilament polypropylene  
+ resorbable PLLA



Monofilament polypropylene

## > A FULL PRODUCT RANGE

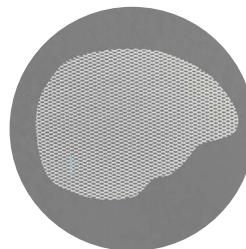
### LICHENSTEIN



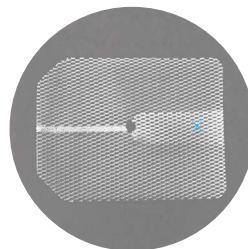
### TAPP / TEP



Pre-shaped



Pre-cut



Flap

## > MATERIAL

75% PLLA - resorbable / 25% polypropylene - non resorbable

(1) Tanaka K., Mutter D., Inoue H., Lindner V., Bouras G., Forgione A., Leroy J., Aprahamian M., Marescaux J. In Vivo evaluation of a new composite mesh 10% Polypropylene/90% Poly-L-Lactic Acid for Hernia Repair. *J Mater Sci: Mater Med* 2007 ; 18 : 991-999. Animal study.

(2) Preliminary results from ongoing multicenter 4DMesh® clinical study - Club Hernie registry.

CE  
0120



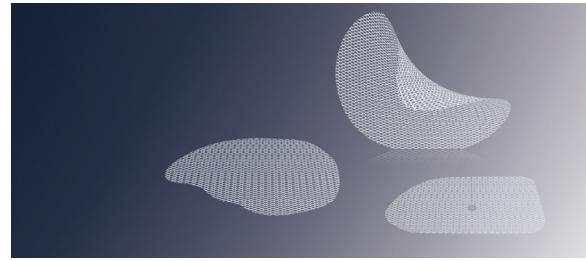
4DMesh is a class III medical device manufactured by COUSIN BIOTECH s.a.s. The management system of COUSIN BIOTECH s.a.s has been certified as meeting the requirements of ISO 13485. Please read instructions for use carefully. Reference: FPV4DMGB01 - 22/04/15

Non contractual pictures and texts. Specifications likely to be modified without notice.

Cousin Biotech S.A.S capital : 340 656 € - 398 460 261 RCS Lille - N°TVA FR 34 398 460 261

# 4DMesh®

Semi-resorbable parietal reinforcement implant



## Product description:

Monofilament polypropylene and poly-L-lactic acid (PLLA) knit.

Products are sold in a double pouch and packaged in a box. They are ethyl oxyde sterilised, CE marked, class III, semi-resorbable. No animal nor human origin.

## Indications:

For the parietal treatment and reinforcement of inguinal and femoral hernias.

## References and sizes:

	Shape	Reference	Description and size (cm)
Lichtenstein		<b>FBIO SR F128</b>	Pre-cut mesh with flap 12 x 8
		<b>4DMESH M613</b>	Pre-cut mesh with slit 6 x 13,5
		<b>4DMESH F812</b>	Pre-cut mesh 8,5 x 12,5
		<b>4DMESH MBES</b>	Pre-cut mesh with slit 12 x 5
		<b>4DMESH MBEL</b>	Pre-cut mesh with slit 7 x 13
TAPP/TEP		<b>4DMESH RABA</b>	Pre-cut mesh with flap 11 x 14
		<b>4DMESH 1215</b>	Oval mesh 12 x 15
		<b>4DMESH 1317</b>	Oval mesh 13 x 17
		<b>4DMESH 1216</b>	Pre-cut mesh 12 x 16,5
		<b>4DMESH 1717</b>	Mesh 17 x 17
Anatomical		<b>4DMESH PRSR</b>	Right pre-shaped mesh 10,5 x 14
		<b>4DMESH PRSL</b>	Left pre-shaped mesh 10,5 x 14
		<b>4DMESH PRLR</b>	Right pre-shaped mesh 12 x 15
		<b>4DMESH PRLL</b>	Left pre-shaped mesh 12 x 15

## Technical characteristics:

Characteristics	4DMesh
Material	75% Monofilament PLLA 25% Monofilament polypropylene
Weight before resorption	120 ± 10 g/m <sup>2</sup>
Weight after resorption	30 ± 10 g/m <sup>2</sup>

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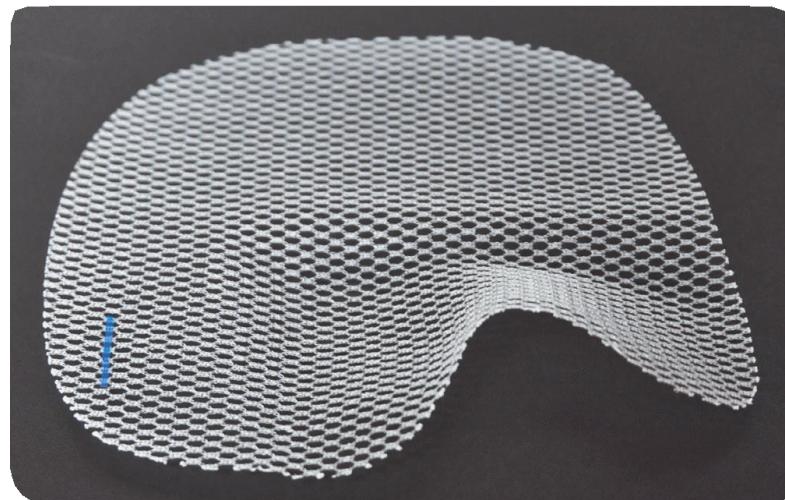
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B I O T E C H

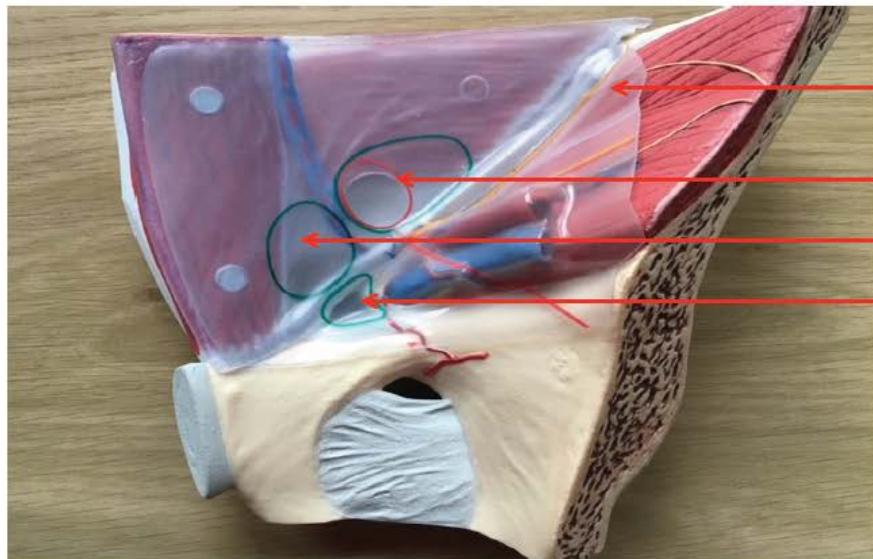


For laparoscopic inguinal hernia repair



Reference	Description	Size (cm)
4DMESH PR SR	Preshaped Small Right	10,5x14
4DMESH PR SL	Preshaped Small Left	10,5x14
4DMESH PR LR	Preshaped Large Right	12x15
4DMESH PR LL	Preshaped Large Left	12x15
4DMESH PR XR *	4DLapXL Preshaped Extra Large Right	12x17
4DMESH PR XL *	4DLapXL Preshaped Extra Large Left	12x17

## Laparoscopic view of the inguinal anatomy of a patient's right side



Peritoneum  
Indirect hernias  
Direct hernias  
Femoral hernias



**4D Lap XL**'s anatomical shape perfectly covers the 3D inguinal floor and largely covers all sites for inguinal and femoral hernias

Tanaka K, Mutter D, Inoue H, Lindner V, Bouras G, Forgirone A, Leroy J, Aprahamian M, Marescaux J. In Vivo Evaluation of a New Composite Mesh 10% Polypropylene/90% Poly-L-Lactic Acid) for Hernia Repair. *J Mater Sci: Mater Med* 2007; 18: 991-999.

The semi-resorbable parietal reinforcement implants brand named 4DMesh®, are dedicated to healthcare professionals having the ability to use this type of product for the therapeutic treatment of inguinal and femoral hernias. 4DMesh is a class III medical device manufactured by COUSIN BIOTECH. Their evaluation and conformity have been carried out by SGS0120.

The management system of COUSIN BIOTECH has been certified as meeting the requirements of ISO 13485.

Please read instructions for use carefully.

Reference: FY4DXLGB01 - 04/05/17

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