

PROVIDES HEMOSTASIS - PREVENTS ADHESIONS

Worldwide unique: CE-certified and clinically proven for

**Adhesion prevention & Hemostasis** 

SIMPLE. SAFE. EFFECTIVE.

No human or animal components.



## **Adhesions**

### Common, chronic and costly

## Causes of adhesions

- Surgical trauma<sup>1,2</sup>
- Inflammation<sup>1,2</sup>
- Endometriosis<sup>1,2</sup>

## Clinical consequences

- Main cause of chronic pain<sup>3</sup>
- Main cause of secondary female infertility<sup>3,4,5</sup>
- Main cause of small bowel obstructions<sup>3,4,5</sup>
- Re-operations (in ~35 % of patients within 10 years)<sup>5,6</sup>

Incidence of postoperative adhesions 7,8



Incidence after adhesiolysis 8,9



Main cause of small bowel obstructions 10,11



## Economic consequences







severe **burden** for patient and surgeon <sup>5,12-14</sup>



44.3% of **readmissions**directly or possibly related to adhesions <sup>5</sup>

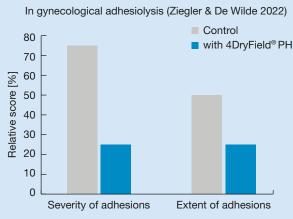
# Clinically proven efficacy

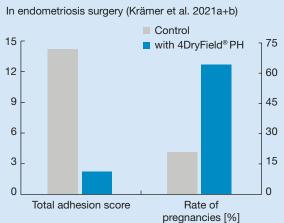
Confirmed in numerous clinical studies

## **4DryField® PH gel**

### as a mechanical barrier for adhesion prevention

Controlled, clinical studies with 2<sup>nd</sup> looks show: Adhesion formation and fertility rates are significantly improved





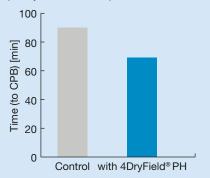
**"Adhesion formation** could be **reduced significantly by 85%** by application of the adhesion barrier **4DryField® PH."**Krämer et al. 2021 Langenbecks Arch Surg

"The modified starch-based device **4DryField®** gave **remarkable results** for an absorbable barrier."

Krämer et al. 2021 Surg Technol Int

"During the follow-up, **none** of the patients experienced a **recurrent obstruction** episode. **This is a remarkable result"** Ahmad & Crescenti 2019 Surg J

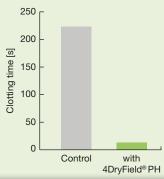
**"4DryField<sup>®</sup> PH** in-situ-mixed gel reduced adhesions significantly better than Adept<sup>®</sup>, Interceed<sup>®</sup> and Seprafilm<sup>®</sup>." Poehnert et al. 2016 Int J Med Sci Significantly reduced re-operation time in a controlled pediatric heart surgery study (Cesnjevar et al. 2022)



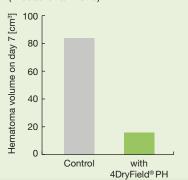
### 4DryField® PH powder

### for accelerated and improved hemostasis

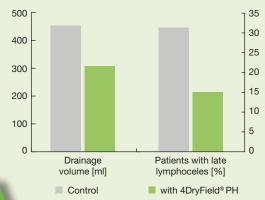
Significantly accelerated blood clotting even in diluted blood (Hanke et al. 2011)



Significantly reduced hematoma formation in clinical orthopedic study (Riebau et al. 2018)



Lymphostatic capabilities of 4DryField® PH after lymph node resection according to a clinical study with >100 patients (Karsch et al. 2016)



"the modified polysaccharide powder was capable of achieving fast hemostasis of the diffuse bleeding, avoiding coagulation"

Torres-de la Roche et al. 2020 Arch Gynecol Obstet

# A variety of benefits

Versatile, simple, safe and effective

### SIMPLE

#### Ready to use

#### **Easy application**

No special storage conditions

Simple and fast laparoscopic application with **4DFLap™** 

### SAFE

#### **Purely plant-based**

- No human or animal components
- No risk of disease transmission

#### Excellent tolerability<sup>1</sup>

- Not cytotoxic
- Up to 1 g/kg body weight is well tolerated
- Does not enhance viability of tumor cells
- Promotes recovery

Free of pyrogens<sup>2</sup>

Resorbed within 7 days1

No documentation requirement as per German Transfusion Law

Also suitable for pediatrics

### **FFFFCTIVE**

Immediate hemostasis3-14

Highly effective adhesion prevention8-23

1 g of 4DryField® PH is enough for ~25 cm<sup>2</sup>

### Further advantages

- no recurrent small bowel obstructions<sup>19</sup>
- ▶ fewer hematomas<sup>6</sup>
- fewer lymphoceles4
- avoids cauterization<sup>7,12,13</sup>
- preserves fertility<sup>7,22</sup>





### 4DryField® PH

Catalog number	Contents
SK0001-EU	5 x 1 g
SK0003-EU	3 x 3 g
SK0005-EU	3 x 5 g
SK0009-EU	3 x 9 g

#### 4DFLap™ applicator



For laparoscopic procedures
Ergonomic handpiece
Flexible inner hose with memory effect
Suitable for current trocars from 5 mm

Catalog number Contents LA0014-EU 14 cm LA0038-EU 38 cm





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**4DryField® PH** and **4DFLap™** should not be exposed to extreme temperatures or direct light irradiation. Keep under normal hospital storage conditions.

Please find further information in the instructions for use at www.planttec-medical.de



