



4DryField[®] PH

The only product worldwide CE-certified for

Adhesion prevention & Hemostasis

SIMPLE. SAFE. EFFECTIVE.

No human or animal components.

Unique manufacturing process, 2 patents pending



Adhesions

Common, chronic and costly

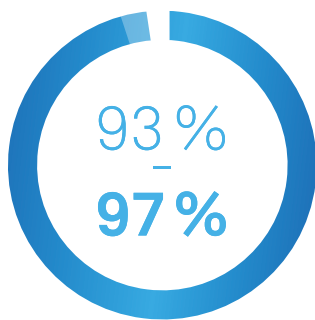
Causes of adhesions

- Surgical trauma^{1,2}
- Inflammation^{1,2}
- Endometriosis^{1,2}

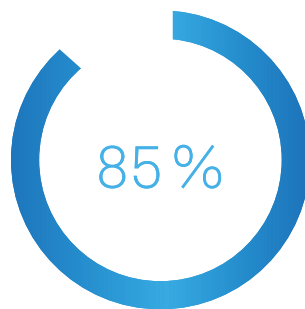
Clinical consequences

- Main cause of chronic pain³
- Main cause of secondary female infertility^{3,4,5}
- Main cause of small bowel obstructions^{3,4,5}
- Re-operations (in 33–35 % of patients within 10 years)^{5,6}

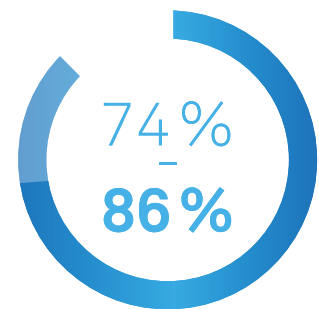
Incidence of postoperative adhesions^{7,8}



Mean recurrence rate of adhesions⁹



Main cause of small bowel obstructions^{10,11}



Economic consequences



~30 min
longer operation time^{5,12}



severe **burden**
for patient and surgeon^{5,12-14}



significant **costs**
for the healthcare system^{5,12-17}



44,3 % of **readmissions**
directly or possibly related to
adhesions⁵

4DryField® in powder form

Immediate hemostasis

The hydrophilic microparticles extract water from the blood, thereby concentrating the clotting factors

> Acceleration of the coagulation cascade.

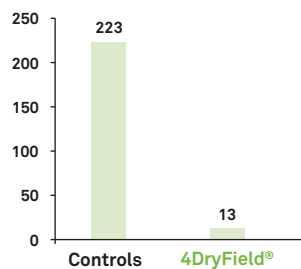
The patient's blood is transformed into a natural fibrin glue.

4DryField® as a gel

Effective adhesion prevention

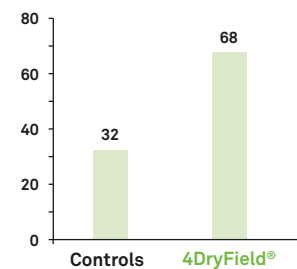
In combination with saline solution the hydrophilic particles form a viscous gel. The gel functions as a temporary mechanical barrier separating surgically traumatized tissue and ensuring the healing of serous surfaces.

Clotting time [s],
50 % HAES-diluted blood



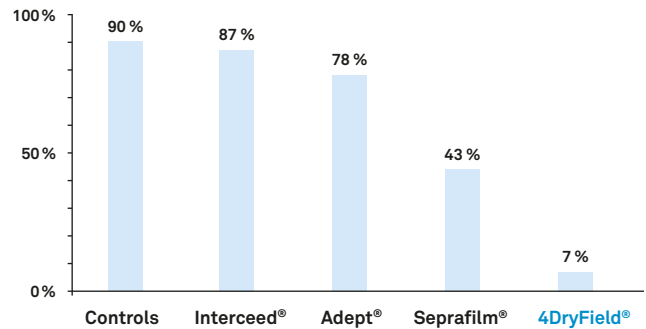
4DryField® significantly accelerates clotting time, even in diluted blood.¹⁸

Max. clot firmness [mm],
50 % HAES-diluted blood



4DryField® significantly increases clot firmness, even in diluted blood.¹⁸

Incidence of adhesions



4DryField® as a gel significantly reduces adhesion formation by 93%.¹⁹

4DryField® absorbs many times its own mass in liquid within a few seconds. Thus, the coagulation cascade is accelerated.

1. Cleaning & Drying

The area of bleeding to be treated should be as clean and as dry as possible.



2. Application

Direct application of 4DryField® powder on the area of bleeding. If necessary, apply pressure with a gauze pad.



3. Bleeding stopped

If used, moisten gauze to remove.



The gel barrier is retained only for the duration of mesothelial healing.

It is important that the gel is free of blood!

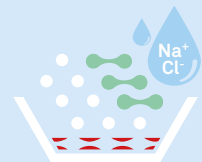
1. Application

Evenly cover the wound area with 4DryField® powder.



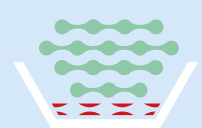
2. Gel transformation

Sprinkling with isotonic saline solution until the powder is transformed into a gel.



Gel dosage

Depending on application field and required viscosity 20–60 ml of saline solution per 5 g of 4DryField® powder.



Indications

Versatile, simple, safe and effective

- Burns surgery
- Cardiothoracic surgery
- ENT surgery
- General surgery
- GI surgery
- Gynecology
- Maxillofacial surgery
- Neurosurgery
- Orthopedics
- Pediatric surgery
- Plastic surgery
- Transplant surgery
- Traumatology
- Tumor surgery
- Urological surgery
- Vascular surgery

SIMPLE

Ready to use

Easy application

No special storage conditions

Simple and fast laparoscopic application with the new **4DFLap™ applicator**

SAFE

Purely plant-based

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

Excellent tolerability²⁰

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

Free of pyrogens²¹

Resorption within 7 days²⁰

No documentation requirement as per transfusion law

EFFECTIVE

Immediate hemostasis^{18,22-26}

Highly effective adhesion prevention^{19,23-29}

5 g of 4DryField® is enough for at least 100 cm²

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 shape memory effect

Suitable for current trocars from 5 mm upwards

Catalog number	Contents
LA0038-EU	18 units

For further information and videos please visit

www.plantttec-medical.de

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.plantttec-medical.de