

## Equicel® Laparoscopy

## Equicel® Powder

### Absorbable haemostats

Oxidised regenerated cellulose with haemostatic effect.

**Made from cotton**

**Suitable for all types of surgery**

**Shelf life 3 years**

**Store under 30°C**

**CE Class III registered**

Equicel is prepared by oxidising a suitable form of cellulose, natural cotton. This is followed by additional processes in order to obtain a pure and high-quality form of oxidised and regenerated cellulose. It is strong and although a slight discoloration may occur with age, this does not affect performance.

Equicel is immediately available for use in the operating theatre and does not require any sterilisation by dry heat or autoclaving. The products are double packed, double sterile.

Equicel Powder Laparoscopy is a product especially developed for laparoscopy. It is a kit containing 2 grams of Equicel powder in a syringe plus a canula. The specialist can put the canula on the filled syringe after which the product is ready for use.

The specialist can then press the powder through the canula, upon which the powder will perform its haemostatic effect. The syringe is filled with sufficient product for several presses. It is advised to press several times, and not to compress the powder too much in front of the syringe, since that might block the opening of the canula.

Due to its neutral pH, Equicel does not inactivate thrombin. With Equicel, haemostasis is achieved within a few minutes. Once implanted into tissue, Equicel are fully resorbed, independent of the circumstances. In addition to its local haemostatic properties, Equicel is a proven bactericide in vitro against a wide range of gram positive and gram negative organisms including aerobes and anaerobes.



## Equicel Powder – Equicel Powder Laparoscopy

### Indication:

Equicel is used adjunctively in surgical procedures to assist in the control of capillary, venous, and small arterial haemorrhages when ligation or other conventional methods of control are impractical or ineffective. With Equicel, haemostasis is achieved within a few minutes.

Equicel can be used in many areas of surgery, e.g. cardiovascular surgery, haemorrhoidectomy, implantation of vascular prostheses, biopsies, lung operations, surgery to the face and jaw, gastric resection, operations to the throat or nose, liver and gall bladder operations, gynaecological operations, thoracic and abdominal sympathectomies, neurosurgery, especially cerebral operations, thyroid operations, skin transplants, treatment of superficial injuries.

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### Indication Equicel Powder:

Equicel sterile powder is indicated in cases where surgeons require a powder haemostatic agent instead of a gauze or sponge. Equicel powder has a strong haemostatic effect and has a high density. The Equicel powder laparoscopic kit is available for use in laparoscopic procedures.

### Haemostatic mechanism:

When Equicel comes into contact with blood, it will absorb the blood and gradually swell, eventually dissolving into a gelatinous material. By briefly applying pressure at this point, the material will adhere to the wound, effectively sealing the ends of the venous capillaries and resulting in a mechanical haemostatic effect. The coagulation cascade is activated, transforming soluble fibrinogen into a net of insoluble fibrin which stops the bleeding. When implanted into tissue, Equicel is absorbed within 5 - 8 days. Equicel is completely bio-absorbable.

### Mode of application Equicel Powder:

Equicel sterile powder should not be saturated with sterile, isotonic sodium chloride solution (sterile saline). Equicel powder should be used dry. Equicel powder can be used straight out of the packaging and sprayed directly on the site where haemostasis is required or used directly in laparoscopic procedures.

### Warning:

When placed into cavities or closed tissue spaces, minimal preliminary compression is advised and care should be exercised to avoid overpacking (the gauze expands upon absorption of liquid). Equicel may swell to its original size and absorbed fluids may increase the risk of nerve damage. For this reason, Equicel should not be used in eye surgery. Due to the fact that Equicel may form a nidus for infection, it must not be left in infected areas; it must be removed once bleeding has been controlled.



2 x 2 gram Laparoscopy kit



5 x 2 gram



For further information visit our website or contact your local or national distributor.

