

# LifeChit

## Bleeding Stopper

Hemostatic Agent

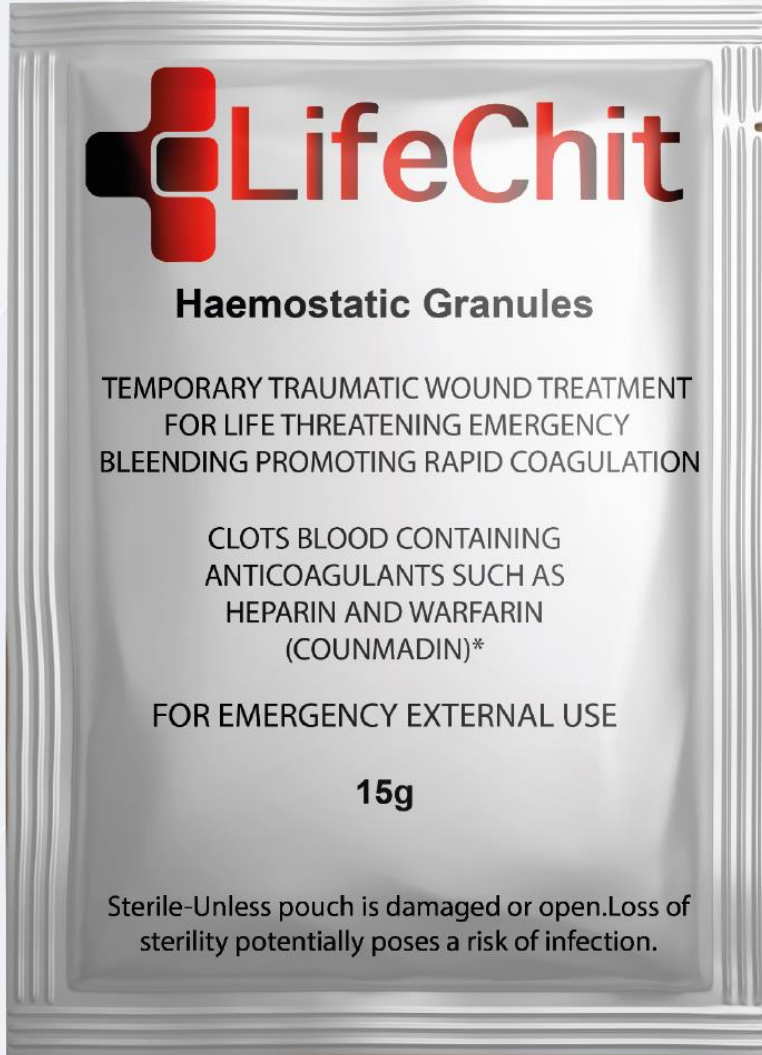


Manufacturer Company: Adaga A.Ş



 ADAGA

Üretici Firma : Adaga Gıda ve Danışmanlık Sanayi A.Ş



- Adaga A.Ş has successfully completed TUBITAK projects in 2011 with "Chitin - Chitosan manufacturing from shellfish".
- Adaga A.Ş has realised a project having great importance in the world and in Turkey with the chitosan haemostat "LifeChit" developed in 2018.
- Chemist Anıl Öztürk and his team developed the first one hundred percent organic haemostatic agent (LifeChit) in the world and in Turkey in 2018.
- LifeChit ( haemostatic agent), which is completely domestic, received the best invention and R&D award in 2018 and the best innovative medical product award in 2022.

Form of Commercial Presentation 2 Gr. - 5 Gr. - 15 Gr. - 30 Gr.



ADAGA®

**LifeChit**  
KANAMA DURDURUCU  
Hemostatik Ajan



Dry Shrimp Shell

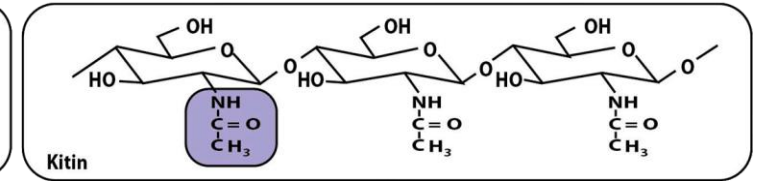
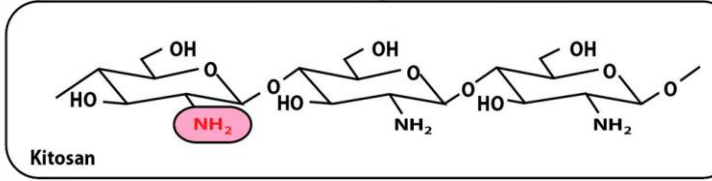
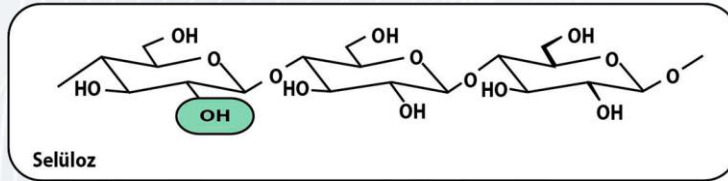


Chitin



Chitosan

# What is LifeChit ?



- LifeChit; is a haemostatic agent with Chitosan active ingredient.
- LifeChit is a linear polysaccharide, derived from Chitosan, obtained as a result of the deacetylation of chitin which is a biopolymer that is the second most common biopolymer in the world after cellulose and which is found on the cell walls of fungus and seashells.
- LifeChit; is completely organic origin.
- LifeChit; is produced without using any support material other than Chitosan.
- It is sterilised by gamma irradiation method.

# LifeChit Usage Areas

- In all bleeding at mild, moderate and severe levels
- Arterial and venous bleeding
- Superficial and Deep injuries
- Head, neck and face injuries

LifeChit; is used as Haemostatic agent (haemostat).





## **LifeChit** Impact Mechanism

- LifeChit provides rapid mobilisation of erythrocytes, clotting factors and thrombocytes by vasoconstriction in the bleeding area.
- LifeChit, as a haemostatic agent, increases platelet adhesion and aggregation together.
- LifeChit increases the calcium ion in the thrombocyte and the expression of glycoprotein IIb - IIIa on the thrombocyte membrane.
- It works by absorbing plasma from the blood and binding to the surface of erythrocytes, creating a solid mechanical gel-like clot that blocks the bleeding source and closes the wound.

[www.lifechit.com.tr](http://www.lifechit.com.tr)

# LifeChit Clinical Studies 1

- Uncontrolled bleeding plays an important role not only in mortality but also in the development of morbidity (Achenos EM et al 2005).
- Direct compression and standard gauze application are often inadequate in the control of bleeding. (LifeChit) Haemostatic agents are alternative for compression methods and extremity tourniquets. (Wedmore et al 2006)
- With better and successful haemostasis (LifeChit) methods, long-term blood loss will decrease and survival rate will increase (Achenos EM et al 2005).





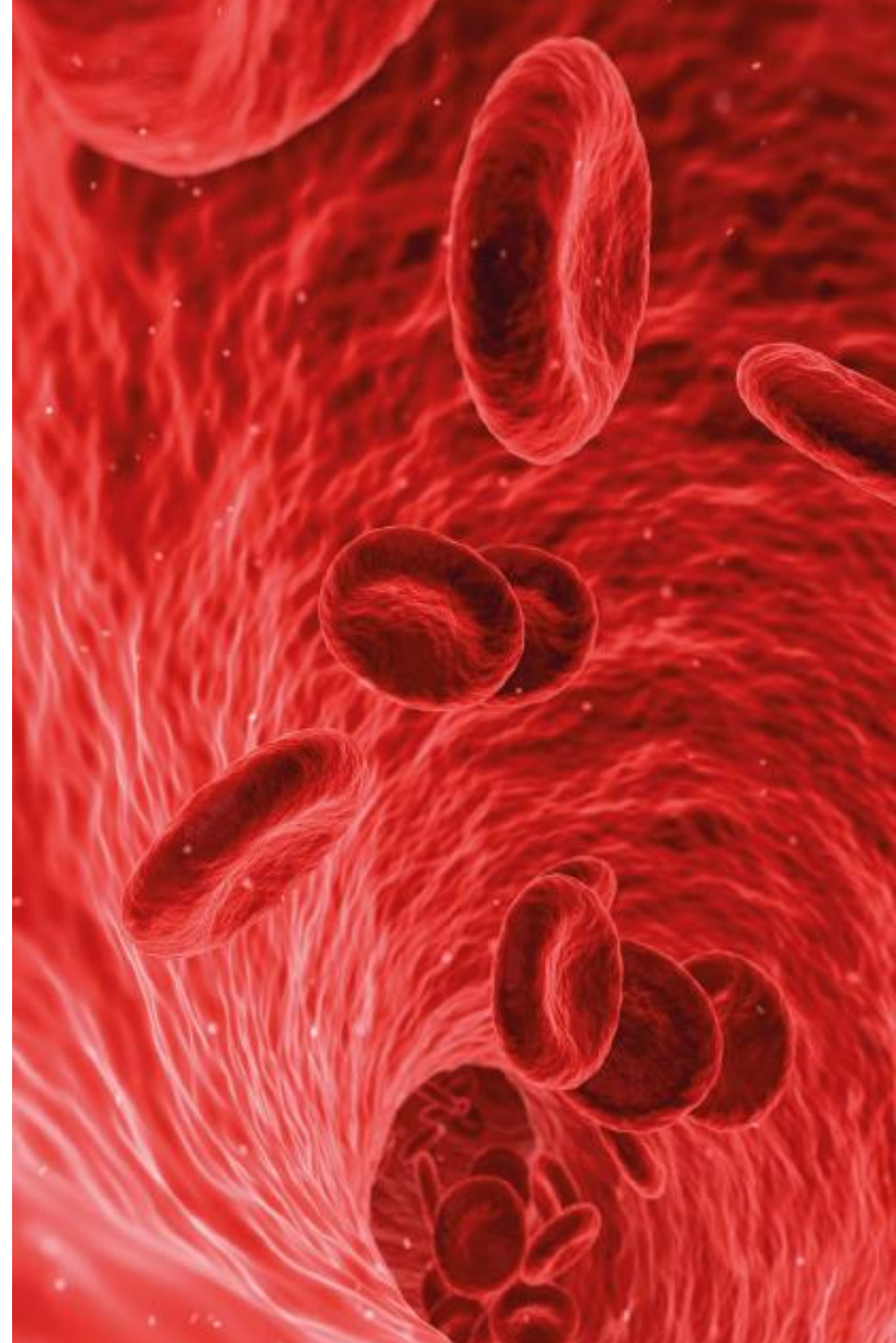
## LifeChit Clinical Studies 2

- Purpose: To evaluate the haemostatic efficiency and safety of LifeChit. n= 40
- Endpoint: This is the time from the application of LifeChit to the bleeding area until the bleeding stops. It is the presence of bleeding recurrence.
- Safety endpoint: Due to non-compliance, inflammation, skin irritation and haematoma, other adverse effects are observed.

# LifeChit Clinical Studies 2

## Result:

- Primary endpoint: LifeChit stopped bleeding with a median value of 23 seconds after application.
- Secondary endpoint: There were no adverse effects with LifeChit. Within 24 hours, no rebleeding occurred in any patient.
- LifeChit Clinical Studies 2 (12.2022 File of Date)





## LifeChit Reliability

- One hundred percent compliance with the target area has been determined.
- The re-bleeding rate was observed as zero.
- It has no toxic and cytotoxic effects and is completely safe.
- Trace amounts of LifeChit entering the systemic circulation are metabolised in the liver and completely excreted in urine and faeces. (Data of File LifeChit)

# LifeChit How to Apply?



LifeChit is applied to bleeding area.



LifeChit exposes to blood and accelerates clotting.



Bleeding area is pressurized. It is compressed for 3-5 minutes.



When bleeding stops, the area is cleaned via normal saline.



# Thanks

Üretici Firma : Adaga Gıda ve Danışmanlık Sanayi A.Ş



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