

GOLDIC® PREPARATION GUIDE

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GOLDIC® is a platform technology using specially designed gold particles to produce an autologous conditioned serum. The **GOLDIC®** technology leads to an accumulation of endogenous regenerative cytokines and various factors under the intended use of the medical device.

The **GOLDIC® Set** serves as a medical device to optimize the body's own serum. This serum is injected as part of a subsequent medical treatment as an autologous drug without additives.



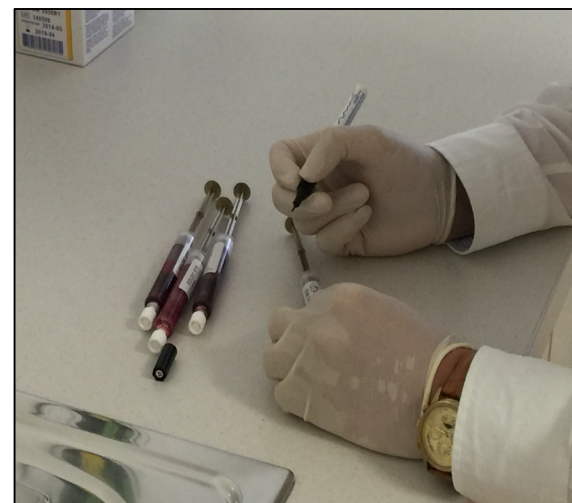
To get a **good mixture between the gold particles and patient's blood** shake the BTS-tubes by gentle wrist movements.



The **GOLDIC® Set** (Gold Induced Cytokine Set) is designed to specifically process autologous blood. It allows the rapid and efficient accumulation of serum with cytokines and growth factors.

GOLDIC® Set includes the following parts:

- 4 x **Blood-Taking-System** (BTS)
- 4 x **Serum-Applications-System** (SAS)
- 1 x Butterfly needle
- 1 x Three-way tap to connect the BTS-tube
- Additional labels



Mark each BTS-tube with the patient's details (name, date of birth, date and time of blood taking).



Use **standard aseptic technique**, prepare the arm vein of the patient for blood removal (tourniquet, alcoholic disinfectant, sterile gloves).

Slowly and carefully (to avoid hemolysis) draw **10 ml** of patient's own blood into each **Blood-Taking-System (BTS-tube)**.

For blood collection, we recommend using the butterfly needle.



Using the three-way tap you can **connect up to 2 BTS-tubes** at the same time. Slowly draw 10 ml of patient's own blood into each BTS-tube.

Do NOT use any anticoagulants.

Make sure the lid is properly closed. Screw cap onto port of the BTS-tube and make sure that it is locked tight.



Store the BTS-tubes in the **incubator** at **37°C (99°F) for 24 hours**.

Please note: Do not store the BTS-tubes directly on the floor of the incubator, but on a grid approximately in the middle.

The prescribed **incubation period should not be exceeded** and monitored by medical personnel.

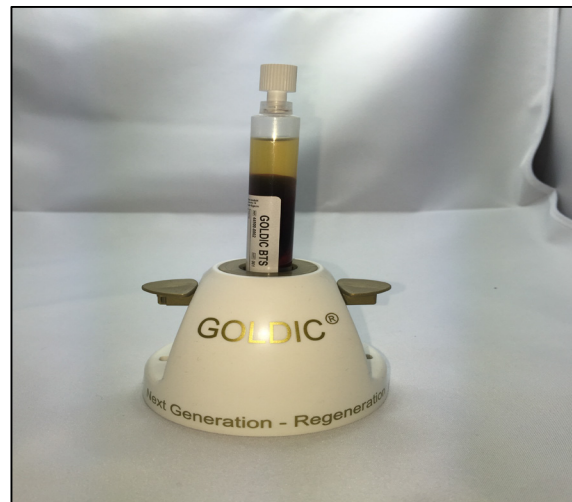


Once this has been done the BTS-tubes will be **centrifuged for app. 10 minutes with 4.000 RPM** to separate the serum from gold particles and blood cells.

Before the start of the centrifugation process it should be checked again whether the cap closes firmly. The BTS-tubes must be placed so that the cap is pointing upwards.



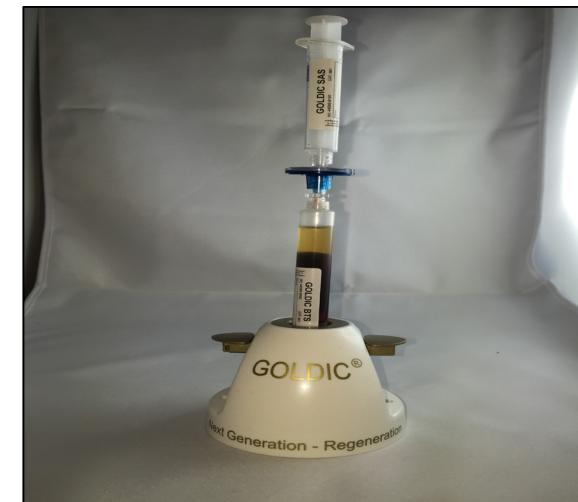
The important cytokines with growth factors and the **serum enriched with key protein Gelsolin** is then **prepared for the injection** of the patient.



Afterwards place each BTS-tube in the **"Serum-Transfer-Device" (STD)**.

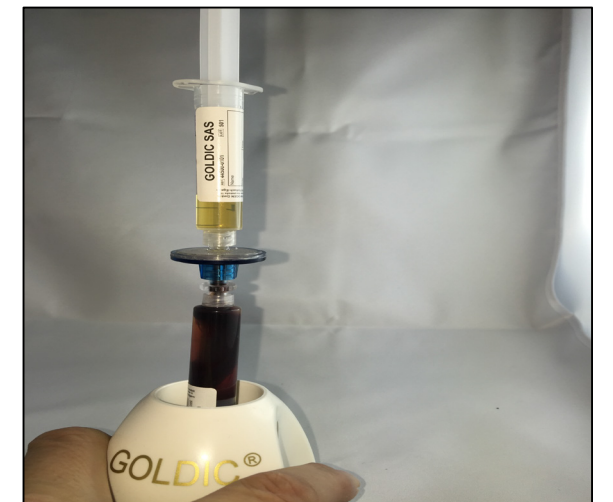
Rotate the tube 45° to the right direction to fix it.

OPTIONAL !



Unscrew the cap; **disinfect** the top of the BTS-tube with alcoholic disinfection spray.

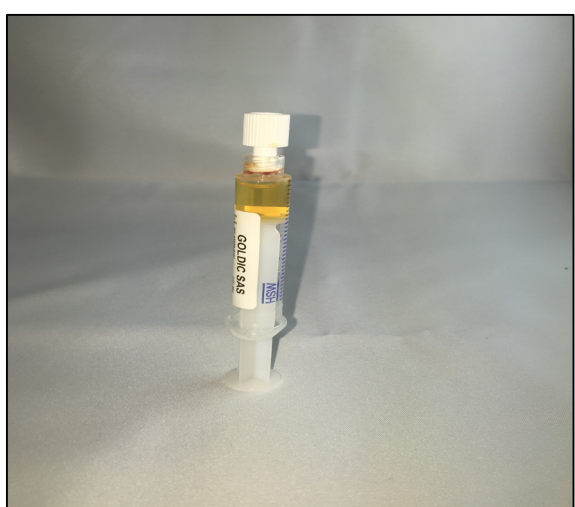
Connect the Serum-Application-System (**SAS-tube**) to the Blood-Taking-System (**BTS-tube**).



Press down the lateral finger buttons of the Serum-Transfer-Device (STD) to **transfer the serum through the filter** into the SAS-tube.

OPTIONAL !

Alternatively, the transfer of the serum can be achieved by **manually moving up** the syringe plunger within the BTS-tubes.



Disconnect the **GOLDIC® SAS-tube** and **seal it with a sterile cap or a sterile injection cannula**.

Label each **GOLDIC® SAS-tube** with patient details.



The **therapy with GOLDIC®** consists usually of **4 injections** of the processed serum for complete treatment.

It is now **injected** into the **affected joint, tendon or tissue**.

In case of sensitive areas, administering local anesthesia first is recommended.



Inject the serum **immediately**, or store all prepared SAS-tubes **together in a storage box / bag at -18°C (-0.4°F) in a freezer** until next treatment.

Please **check the integrity and labeling** of the SAS-tubes prior next usage.

Record the process in a lab diary (patient details, date, number of SAS-tubes, noticeable problems).



This form of treatment involves a special type of **personalized medicine**.

The **GOLDIC®** set is intended for the physician to prepare for **an individual treatment of inflammatory and degenerative diseases**. Here one uses the positive effect of the gold while avoiding any side effects.

The **GOLDIC®** set can be used in professional health care facilities, such as doctors' offices, hospitals, clinics and other medical facilities.