

Lipocollect

For LDL-apheresis treatment



Lipocollect and ADAorb®

The reusable LDL-adsorbing columns
for the operation with a cell separator
and the ADAorb®-device

- The primary plasma separation is performed by the automatic plasmapheresis program of the cell separator, to which the ADAorb® – treatment program is adapted. This includes priming, plasma loading, cleaning and preservation of the columns. There is no need for manual supply of solutions to the columns.
- All necessary solutions and disposable tubings are CE-certified and assembled in a treatment set.
- The Lipocollect columns are a safe, efficient and economic alternative to single use systems. One pair of adsorbers will be used for a duration up to 18 months.
- Each patient has his own long-lived column pair, labelled by his name.
- The columns are stored with a coloured NaN_3 -containing solution at 2–5° C.



Hypercholesterolemia and LDL-apheresis

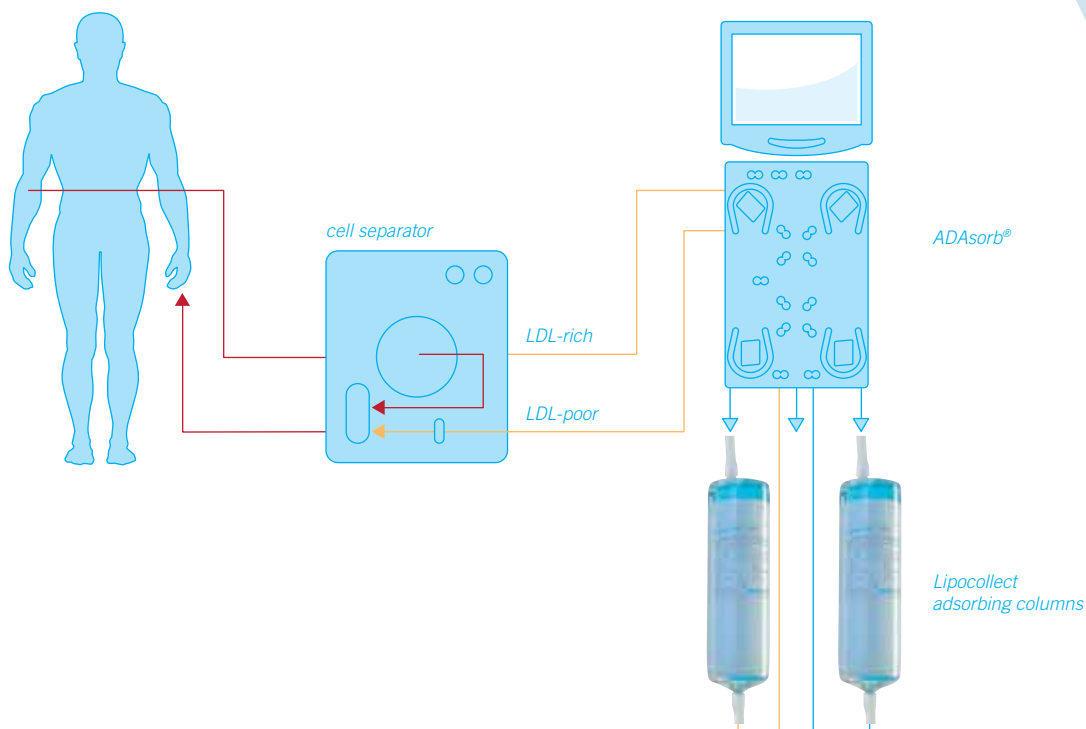
Elevated LDL-cholesterol (hypercholesterolemia) favours damage to the arteries. Deposits and stenosis in the coronary arteries may result in a cardiac infarction by a sudden, complete occlusion. Lowering the “bad” LDL-cholesterol by diet or medication as well as elevating the “good” HDL-cholesterol by physical exercise, may reduce the risk of cardiac infarction. In case of severe, hereditary familial hypercholesterolemia such correctional measures are insufficient. Patients, affected by the homozygous expression of the disease, may not even obtain the adulthood. For such patients LDL-apheresis is helpful.

It is a periodically repeated blood purification procedure, taking 2–4 hours.

Thereby, the blood is drawn continuously from a forearm vein and pumped through an extracorporeal sterile LDL eliminating device. The LDL-free blood is reinfused via a second forearm vein. In weekly or biweekly intervals 60 to 85 % of the LDL-cholesterol is removed per session. Today, LDL-apheresis is a routine treatment.


The conception


- Utilization of the available cell separator
- ADAsorb® for programmed loading/rinsing of the adsorbing columns
- Long-lived, reusable columns with constant safety and efficiency



Lipocollect 300

Mehrweg-LDL-Adsorber für die LDL-Apheresis aus Plasma von
selbstigen Patienten in Kombination mit Primärfiltriergeräten und
Adsorptions-Desorptionsgeräten. Bei der angegebenen Temperatur
nur in der vorgesehenen Lösung lagern!

+1°C  +6°C

STERILE 



 10.2004

 03.2005

LOT 33/01

CE 0525

Hersteller
medicollect aG, Im Rosenthal 3
65469 Rimbach, Germany

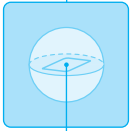
 **medicollect**



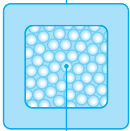
Adsorbent



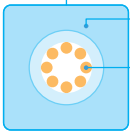
porous silica beads



single bead



pores within a bead



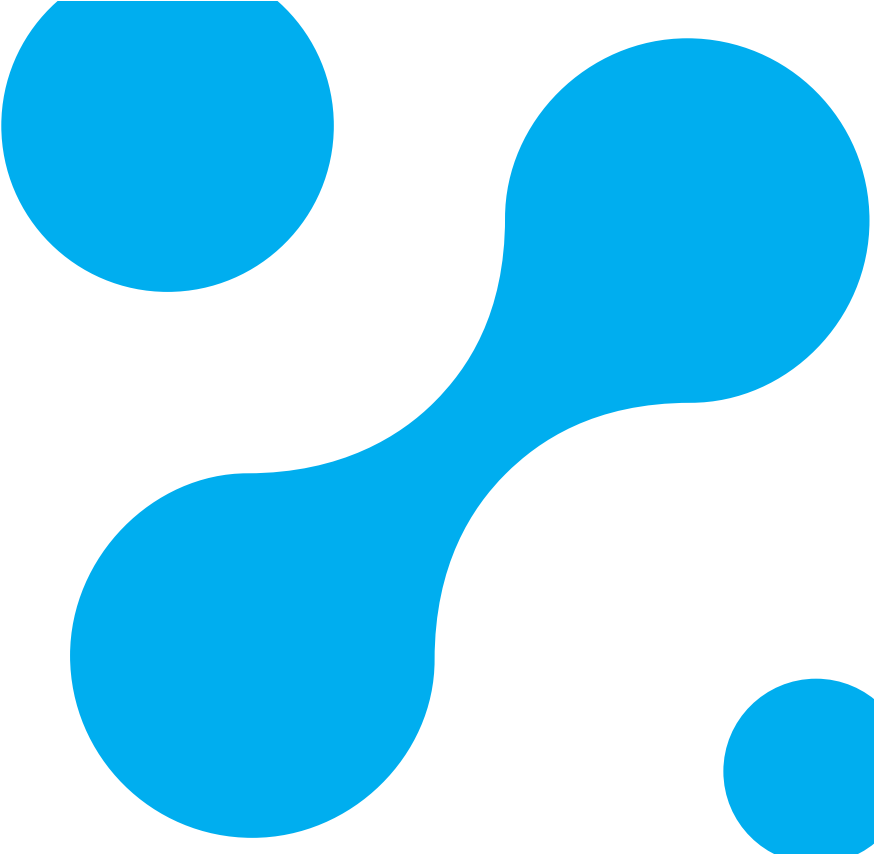
single pore, negative charge

LDL

Spherical porous adsorbent,
LDL is adsorbed within
the pores

Advantages of Lipocollect

- More than 80 % removal of the LDL-cholesterol can be achieved per treatment, even in extremely high pretreatment levels.
- Clinical results indicate, that Lp(a) may be eliminated as much as LDL.
- Lipocollect is a heat-sterile product according to DIN EN 556-1:2002 and DIN EN ISO 17665:2004 (wet heat).
- The Lipocollect columns neither contain biologic nor plastic materials or allergens.
- The licensed durability is 18 months, safety and efficiency are constant during this period.
- The reuse and the preservation are safe. Infections or other side effects did not occur.
- The blue colour marking of the preserving solution allows its recognition in the columns.
- A further contribution to the safety is the post column plasma filtration by a separate 1,2 µm particle filter.
- medicollect® affords a warranty on constant efficiency of the columns for 12 month, independent on the frequency of use.



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If you have further questions, we are pleased,
to support you with more detailed information.