How to prepare an EliA™ Calprotectin stool test

Stool extraction in six quick and easy steps

Method 1
Extraction using the EliA Stool Extraction Kit (order no. 14-5638-01, 50 tubes). The extraction tubes are pre-filled with 750µl of EliA Calprotectin Extraction Buffer.

1. Unscrew the tube’s upper, light blue cap and pull out the connected rod.

2. Insert the rod into the stool sample. The four notches at the lower part of the rod must be completely covered with stool.

3. Insert the rod back into the tube carefully. Lock the tube firmly.

4. Homogenize the stool sample completely using a vortexer. Afterwards incubate for 10 minutes.

5. Unscrew the tube’s lower, dark blue cap. Discard complete cap and rod. Transfer the homogenate to an Eppendorf tube and centrifuge for 5 minutes at 3000 x g.

6. Transfer the supernatant to a fresh tube. The supernatant is the raw sample used for testing.

The stool extract can be stored at ≤ -20°C for max. 3 months. Storage in the fridge is not recommended, not even overnight, as this will lead to decreased calprotectin concentrations.
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Method 2

Extraction using conventional stool extraction devices which are not pre-filled with extraction buffer. We recommend the “Faecal sample preparation kit” by Roche Diagnostics, which is available through Thermo Fisher Scientific (order no. 14-5619-01, 50 tubes).

1. Pre-weigh empty extraction device including sample chamber.
2. Transfer approximately 100 mg of homogeneous stool sample to the extraction device. Weigh the transferred amount of stool.
3. Add 50 times the stool weight of EIA Calprotectin Extraction Buffer (e.g. 100 mg stool sample + 5 ml buffer).
4. Close extraction device, homogenize the sample completely using a vortexer. Afterwards incubate for 10 minutes.
5. Transfer 1-2 ml of the homogenate to an Eppendorf tube and centrifuge for 5 minutes at 3000 x g.
6. Transfer the supernatant to a fresh tube. The supernatant is the raw sample used for testing.

The stool extract can be stored at ≤ -20°C for max. 3 months. Storage in the fridge is not recommended, not even overnight, as this will lead to decreased calprotectin concentrations.