Polyclonal
Llama IgG (and/or Camelide IgG) purification kit (LIKPG-FF KIT)
under physiological conditions, all steps
Price: 300 EUR/KIT

KIT CONTENT
(sufficient reagents for 8 purifications of IgG_1, IgG_2 & IgG_3 with 15 ml Llama serum/each)

- Llama IgG Binding Gel (Sepharose™ fast flow) (Code : LIK**P**G-FF) : 5 ml gel column.
  Binding capacity : approx. 30 mg Llama IgG/ml wet gel.
  Purity : 90% by SDS-PAGE
  Maximum pressure : 3 bars (43 psi, 0.3 MPa).
  Gel life : approx. 50 cycles with routine regeneration.
- Llama IgG Binding Buffer (Code : BBL**P**G) 2x concentrated : 1000 ml.
- Llama IgG Elution Buffer (Code : EBL**P**G) 4x concentrated: 125 ml.
- Llama IgG Precipitating Agent (Code : PAL**P**G) : 8 x 1 sachet of sufficient quantity for precipitating all IgG from 15 ml of Llama serum/each.

INSTRUCTIONS FOR USE

1. Add with mild agitation 1 sachet of Precitating Agent (PAL**P**G) to 15 ml of Llama serum for 10 minutes. Stop the agitation and allows to stand for 30 minutes at 4°C. Centrifuge at 3000 g for 10 minutes. Discard the supernant from the pellet. Dissolve the pellet in 30 ml of Binding Buffer (BBL**P**G). Such a sample is ready to be loaded into the column.
2. Equilibrate the column (LIK**P**G-FF) with 20 ml of Llama IgG Binding Buffer (BBL**P**G). Set the valve to get a flow rate of approx. 30 ml/hour.
3. Load the sample prepared in point 1 into the column prepared in point 2 at a flow rate of 30 ml/hour.
4. Wash the column with 200 ml of Llama IgG Binding Buffer (BBL**P**G) at a flow rate of approx. 50 ml/hour.
5. Elute the Llama IgG with the Llama IgG Elution Buffer (Code : EBL**P**G) until the O.D. at 280nm of the eluent reaches the baseline level. Collect 10 fractions of 5 ml elution volume.
6. Assay the elution fractions obtained as described in point 5, using the most appropriate system (SDS-PAGE, immunodiffusion, radioimmunoassay, Elisa…)

REGENERATION OF THE LLAMA IgG BINDING GEL
It is recommended to regenerate the gel after every 5 cycles of use.

1. Wash the column with 10x volumes of NaOH 0.1M.
2. Wash the column with 10x volumes of distilled water.
3. Equilibrate the column 10x volumes of PBS (50 mM K_2HPO_4, 150mM NaCl) pH 7.4.
4. Store the column at 4°C in the presence of NaN_3 0.1% (w/v).
5. For the next use, see INSTRUCTION FOR USE as described above.

If you need sterile materials, the regeneration can be carried out as follows.

STERILE REGENERATION OF THE LLAMA IgG BINDING GEL
(GEL SANITIZATION)
AFTER EVERY 5 CYCLES OF USE

1. Wash 1 volume of gel column with 5 volumes of acetic acid 1 M.
2. Wash this column with 10 volumes of sterile distilled water.
3. Wash this column with 5 volumes of NaOH 1M.
4. Wash this column with 10 volumes of sterile distilled water.
5. Wash this column with 10 volumes of PBS (50 mM K_2HPO_4, 150mM NaCl) pH 7.4; NaN_3 0.1%(w/v).
6. The sterile gel column is now ready to be re-used.

Lama (and Rat) IgG purification
with Lama (and Rat) IgG purification kit
(LIK-FF KIT and RIK-FF KIT)

Sample : 15 ml of Lama (and Rat) serum (with or withoutprecipitating agent)
Gel volume : 5 ml Lama (and Rat) IgG binding resin (LIK-FF and RIK-FF) column

(see Protocols)

SDS-PAGE 4-12%

1, 1', 2, 2', 4, 4', 5, 5' : the serum was precipited by Precipitating Agent and the pellet redissolved in the Binding Buffer was loaded into the column for IgG purification.
3, 3' : the Lama serum was directly loaded into the column for IgG purification.

1 to 5 : with BME — **1' to 5' : without BME**

from Lama serum

1 : Flow through — **1' : Flow through**
2 : Elution fractions — **2' : Elution fractions**
3 : Elution fractions — **3' : Elution fractions**

from Rat serum

4 : Flow through — **4' : Flow through**
5 : Elution fractions — **5' : Elution fractions**

M (Markers expressed in kD) : 170, 130, 95, 72, 55, 43, 34, 26, 17, 11