Polyclonal
Human IgG purification kit (Code : HIKPG-FF KIT)
under physiological conditions, all steps
Price: 300 EUR/KIT

KIT CONTENT
(sufficient for 8 purifications with 15 ml human serum/each)

- Human IgG Binding Gel (Sepharose™ fast flow) (Code : HIK**P**G-FF) : 5 ml gel column.
  Binding capacity : approx. 20 mg human IgG/ml wet gel.
  Purity : 95% by SDS-PAGE
  Maximum pressure : 3 bars (43 psi, 0.3 MPa).
  Gel life : approx. 50 cycles with routine regeneration.
- Human IgG Binding Buffer (Code : BBH**P**G) 2x concentrated : 1,000 ml (Add 1000 ml of distilled water before use)
- Human IgG Elution Buffer (Code : EBH**P**G) 4x concentrated : 125 ml (Add 375 ml of distilled water before use).
- Human IgG Precipitating Agent (Code : PAH**P**G) : 8 x 1 sachet of sufficient quantity for precipitating all IgG from 15 ml of human serum/each.

INSTRUCTIONS FOR USE

1. Add with mild agitation 1 sachet of Precitating Agent (PAH**P**G) to 15 ml of human serum for 10 minutes. Stop the agitation and allows to stand for 30 minutes at 4℃. Centrifuge at 3000 g for 10 minutes. Discard the supernant from the pellet. Dissolve the pellet in 30 ml of human IgG Binding Buffer (BBH**P**G). Such a sample is ready to be loaded into the column.
2. Equilibrate the column with 20 ml of human IgG Binding Buffer (BBH**P**G).
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 human IgG Binding Buffer (BBH**P**G).
5. Elute the human IgG with the human IgG Elution Buffer (Code : EBH**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 HUMAN 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℃ 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 HUMAN 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.