

GPC E05

Liquid-liquid extraction demonstration

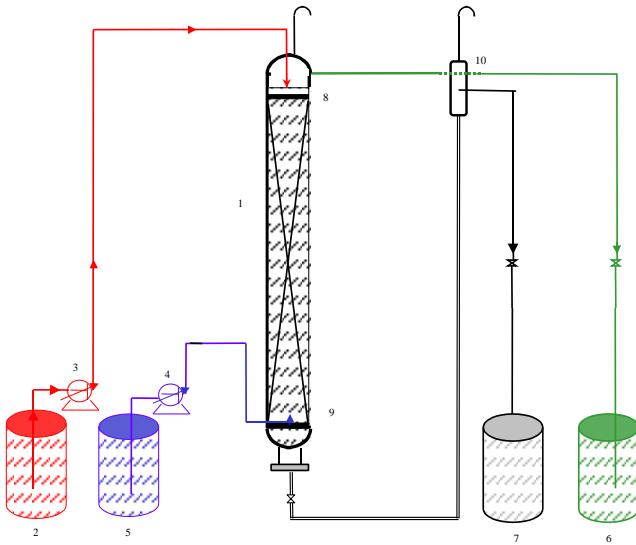
DESCRIPTION

- v **Process of separation of the components of a liquid mixture based on the difference in solubility of the components in a specific solvent.**
- v **Simulates a liquid-liquid extraction process commonly used in industry. Provides a method to check the feasibility of an extraction process.**
- v **A user manual is provided.**

SUGGESTED APPLICATIONS

- Study of an extraction process
- Experimental determination of the liquid-liquid equilibrium
- Determination of the number of theoretical stages
- Effectiveness of the column
- Mass balance : transfer of matter

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UTILITIES

Electricity : 230 V – 60 Hz – 7 A
Drain

DIMENSIONS

Length : 800 mm
Width : 700 mm
Height : 1000 mm
Weight : 30 kg

∅ Extracting column

- Borosilicate glass
- Diameter : 50 mm
- Height : 500 mm

• Solvent supplying tank

- Polyethylene
- Volume = 2 L

÷ Solvent supplying diaphragm pump

- Polypropylene head
- Flow rate : 0-12 L/h
- With diaphragm
- Protection IP 65

≠ Mix supplying diaphragm pump

- Polypropylene head
- Flow rate t : 0-17 L/h
- With diaphragm
- Protection IP 65

≡ Mix supplying tank

- Polyethylene
- Volume = 2 L

≈ Receiver for the extract

- Borosilicate glass
- Volume = 2 L

... Receiver for the raffinate

- Borosilicate glass
- Volume = 2 L

| Dispatching supplying plates at the top of the column

- Stainless steel 316l

— Barometric leg

- Permits changing the phase in the column decanter

Options:

- Temperature sensors
- Perforated plates instead of padding