Microfiltration (MF) systems enable the selective removal of larger macro-molecules yielding a filtrate crystal clear.

The Microfiltration systems from MMS can clarify plant extract solutions removing sub-micron particles and molecules. Microfiltration physically retains larger molecules including microbes making your filtrate not only clear, but also sterile.

The MMS SwissFlow MF systems enables the clarification and stabilization of plant extracts either in aqueous or alcohol solutions. For clarification of plant extracts MMS select either ceramic or polymer based membranes in hollow fibre modules.

Additional MMS plant extract Equipment
- Microfiltration for extract clarification
- Ultrafiltration for macro-molecule concentration, fractionation and de-salting.
- Nanofiltration for small molecule concentration and de-salting.
- Reverse osmosis for concentration of extracts using low to moderate temperature

Benefits
- Physical means of clarification
- No additives, flocculating agents required
- No solvents required
- Low operating temperatures
- Low energy requirements
- Sterilizes and clarifies in one step

Features
- Fully automated systems
- Supported by specialists
- CIP system included
- Complete solutions including tanks, post and pre-treatment

Options
- Diafiltration for higher product yield
- Post-treatment with RO for concentration
- On-line control of total solids
- On-line pH adjustment
- Remote access for system support and rapid troubleshooting
- Additional polishing step of permeate
- Scalable for more capacity
MMS produce a range of MF systems capable of handling feed rates from 10 L/h – 25'000 l/h. The capacity of the system is a function of several parameters, including feed concentration, level of retentate concentration and operating temperature. With our specialists we will enable you to select the correct system for your product and processing requirements.

MMS enable a process from the conceptual phase to be developed, designed, constructed, installed and implemented by our customers, successfully.

Other Extract Applications
- Aloe Vera clarification and concentration
- Algae extract de-slating and concentration
- Chocolate extract clarification
- Herbal extract concentration
- Soya milk de-bittering
- Polyphenolics fractionation and concentration

MMS supports customers during the develop of their membrane process.

Our infrastructure allows for the screening of membranes and scale-up of processes using out pilot systems.