

# Ultrafiltration

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Ultrafiltration is a variety of membrane filtration in which hydrostatic pressure forces a liquid against a semipermeable membrane. Suspended solids and solutes of high molecular weight are retained, while water and low molecular weight solutes pass through the membrane. This separation process is used in industry and research for purifying and concentrating macromolecular solutions, especially protein solutions.

Ultrafiltration is not fundamentally different from reverse osmosis, microfiltration or nanofiltration, except in terms of the size of the molecules it retains. More specifically, it can refer to: \* Ultrafiltration \* Ultrafiltration cs:Ultrafiltracede:Ultrafiltrationfr:Ultrafiltrationpl:Ultrafiltracijapt:UltrafiltraÃfÃ§ÃfÃ£ozh-classical:Ã~Ã¶â€!Ã:Ã¿Ã¼Ã:Ã³â€¢ Ultrasonography



## Recent Publications on Ultrafiltration:

- [Deactivation Kinetics and Response Surface Analysis of the Stability of alpha-L: -Rhamnosidase from \*Penicillium decumbens\*.](#)  
*The stability of the mixed enzyme preparation Naringinase from Penicillium...*30th August, 2008  
 Institute of Engineering in Life Sciences, Chair of Technical Biology,- Appl Biochem Biotechnol. 2008 Aug 27. ([DOI Direct Link](#))
- [The roles of carbohydrates, proteins and lipids in the process of aggregation of natural marine organic matter investigated by means of 2D correlation spectroscopy applied to infrared spectra.](#)  
*In this paper the marine organic matter soluble in an alkaline medium...*30th August, 2008  
 Istituto Centrale per la Ricerca Scientifica e Tecnologica Applicata al- Spectrochim Acta A Mol Biomol Spectrosc. 2008 Jul 23. ([DOI Direct Link](#))
- [Purification and biochemical characterization of cytosolic glutathione-S-transferase from filarial worms \*Setaria cervi\*.](#)  
*The present study reports the purification and characterization of GST...*30th August, 2008  
 Division of Biochemistry, P.O. Box No. 173, Central Drug Research- Comp Biochem Physiol B Biochem Mol Biol. 2008 Apr 8. ([DOI Direct Link](#))
- [p-Nitrophenol removal by combination of powdered activated carbon adsorption and ultrafiltration - comparison of different operational modes.](#)  
*Ultrafiltration is classified as a low-pressure membrane technology which...*30th August, 2008  
 Faculty of Sciences, University of Novi Sad, Trg Dositeja Obradovica 3,- Water Res. 2008 Jul 17. ([DOI Direct Link](#))
- [Peritoneal morphologic changes in a peritoneal dialysis rat model correlate with angiotensin/Tie-2.](#)  
*The angiotensin/Tie-2 system plays an important role in the initiation of...*30th August, 2008  
 Renal Division, Renji Hospital, Shanghai Jiaotong University, School of- PEDIATR NEPHROL. 2008 Aug 28. ([DOI Direct Link](#))
- [Analysis of soybean protein-derived peptides and the effect of cultivar, environmental conditions, and](#)

[processing on lunasin concentration in soybean and soy products.](#)

*Soybean, an important source of food proteins, has received increasing...*30th August, 2008  
University of Illinois, Department of Food Science and Human Nutrition,- J AOAC Int. 2008  
Jul-Aug;91(4):936-46.

- [\[Separation and purification of porcine hemoglobin from porcine blood\]](#)

*In order to perform the isolation and purification of porcine hemoglobin...*30th August, 2008  
College Life Science, Northwest University, National Engineering Research- Se Pu. 2008  
May;26(3):384-7.

- [Effect of modified ultrafiltration on postoperative course in neonates with complete transposition of the great arteries undergoing arterial switch operation.](#)

*Background The purpose of the present study was to evaluate the effect of...*30th August, 2008  
Department of Cardiovascular Surgery, Okayama University Graduate School- Circ J. 2008  
Sep;72(9):1476-80.

- [Bicarbonate buffered ultrafiltration leads to a physiologic priming solution in pediatric cardiac surgery.](#)

*Pediatric cardiopulmonary bypass (CPB) involves a high ratio of priming...*23rd August, 2008  
Hannover Medical School, Germany.- Interact Cardiovasc Thorac Surg. 2008 Aug 21. ([DOI Direct Link](#))

- [Influence of interactions between NOM and particles on UF fouling mechanisms.](#)

*This study focused on the mechanistic effects of molecular interactions...*22nd August, 2008  
Eawag: Swiss Federal Institute of Aquatic Science and Technology,- Water Res. 2008 Jun 21. ([DOI Direct Link](#))

- [Purification of capsular polysaccharide produced by Haemophilus influenzae type b through a simple, efficient and suitable method for scale-up.](#)

*Haemophilus influenzae type b, an encapsulated bacterium, causes...*21st August, 2008  
Centro de Biotecnologia, Instituto Butantan, Av. Vital Brasil 1500, Sao- J Ind Microbiol Biotechnol. 2008  
Aug 20. ([DOI Direct Link](#))

- [Effect of biological wastewater treatment on the molecular weight distribution of soluble organic compounds and on the reduction of BOD, COD and P in pulp and paper mill effluent.](#)

*Pulp and paper mill wastewater was characterized, before (influent) and...*19th August, 2008  
Department of Process and Environmental Engineering, University of Oulu,- Water Res. 2008 Jun 26. ([DOI Direct Link](#))

- [Does zero balance ultrafiltration decrease the incidence of post-cardiopulmonary bypass atrial fibrillation?](#)

*Atrial fibrillation is the most frequent cardiac dysrhythmia after cardiac...*19th August, 2008  
Department of Surgery, Centura St. Anthony Central Hospital, Denver,- J Extra Corpor Technol. 2008  
Jun;40(2):109-15.

- [Evaluation of on-line solid phase extraction-capillary electrophoresis-electrospray-mass spectrometry for the analysis of neuropeptides in human plasma.](#)

*In this study, the suitability of SPE coupled on-line to...*15th August, 2008  
Department of Analytical Chemistry, University of Barcelona, Barcelona,- Electrophoresis. 2008  
Aug;29(16):3366-76. ([DOI Direct Link](#))

- [Modified ultrafiltration: role in adult cardiac surgical haemostasis.](#)

*BACKGROUND: During cardiac surgery, cardiopulmonary bypass (CPB) leads to...*13th August, 2008  
Department of Cardiac Surgery, Armed Forces Institute of- J Ayub Med Coll Abbottabad. 2007  
Oct-Dec;19(4):49-54.

## BioNews Results for Ultrafiltration

- [Method of Preparing a Confectionery Product Made of Protein and Carbohydrate Materials Present in a Relative W](#)

*Flex News: Aug 7 2008 4:49AM Matching: ultrafiltration*

- [New section on dialysis launched](#)  
MHRA: Jul 22 2008 2:49PM Matching: ultrafiltration



### Ultrafiltration Clinical Trials:

- [Outpatient Ultrafiltration Therapy in Heart Failure Patients Trial](#)  
*Congestive Heart Failure*



### Ultrafiltration Patents:

- 7410779- [Fusion polypeptides of human serum albumin and a therapeutically active polypeptide](#)
- 7413734- [Treatment of retinitis pigmentosa with human umbilical cord cells](#)
- 7413735- [Pharmaceutical composition comprising arginine deiminase for inhibiting angiogenesis](#)
- 7413741- [HCV E1 comprising specific disulfide bridges](#)
- 7413743- [Active immunization using a siderophore receptor protein](#)
- 7413781- [Gels for encapsulation of biological materials](#)
- 7413855- [Method for bisulfite treatment](#)
- 7413870- [SAK: modulation of cellular proliferation for treatment of cancer](#)
- 7413877- [Bacterial expression of bowman-birk protease inhibitors and variants thereof](#)
- 7413882- [Methods for degrading or converting plant cell wall polysaccharides](#)
- 7413884- [Immunological control of .beta.-amyloid levels in vivo](#)
- 7413660- [Single pass method and apparatus for separating a target molecule from a liquid mixture](#)
- 7413644- [Installation for the cataphoretic dip coating of articles](#)
- 7411081- [Process for preparing and organometallic framework material](#)
- 7410786- [Sulfated fucogalactan digesting enzyme gene](#)
- 7410796- [Proteinase inhibitor, precursor thereof and genetic sequences encoding same](#)
- 7410807- [Pregnancy and sex identification test based on saliva or other bodily fluids](#)
- 7410946- [Method for treating damage in intact skin comprising administering a composition comprising basic milk growth factors in amounts higher than those in milk](#)
- 7410949- [Neuropeptide-2 receptor \(Y-2R\) agonists and uses thereof](#)
- 7411006- [Enhanced production of blood clotting factors and fibrin fabric](#)
- 7411043- [Slo4 potassium channel proteins](#)
- 7411044- [Polymerized hemoglobin solutions having reduced amounts of tetramer and method for preparing](#)
- 7411050- [Monoclonal blocking antibody to human RANKL](#)
- 7411055- [Attractin/mahogany-like polypeptides, polynucleotides, antibodies and methods of use thereof](#)
- 7413886- [Process for producing phosphorylase](#)
- 7413895- [DNA encoding neutral amino acid transporter](#)

- 7416858- [Pharmaceutical compositions of glycoconjugates](#)
- 7416862- [Nucleic acid and amino acid sequences relating to Staphylococcus epidermidis for diagnostics and therapeutics](#)
- 7416877- [Receptor that causes cell death and recombinant production thereof](#)
- 7417025- [Use of poly-.alpha.2,8-sialic acid mimetic peptides to modulate NCAM functions](#)
- 7417118- [Pharmaceutical composition containing artificial oxygen carrier](#)
- 7417120- [Purified Stat proteins and methods of purifying thereof](#)
- 7417126- [PRO246 antibodies](#)
- 7417134- [IL-1 receptor based cytokine traps and method of using](#)
- 7417164- [Fluorescent dyes for use in glucose sensing](#)
- 7417176- [Diacylglycerol acyltransferase nucleic acid sequences and associated products](#)
- 7416856- [High sensitivity assay for detection of nucleoside diphosphate production](#)
- 7416849- [HBM variants that modulate bone mass and lipid levels](#)
- 7416846- [Vaccine composition comprising virus-like particles of human papillomavirus](#)
- 7414009- [Highly active photocatalyst particles, method of production therefor, and use thereof](#)
- 7414077- [Therapeutic intervention to mimic the effect of caloric restriction](#)
- 7414146- [Imaging element containing a blocked photographically useful compound](#)
- 7416592- [Magenta ink composition, ink set, ink cartridge, inkjet recording method and recorded product](#)
- 7416593- [Mono azo dyes](#)
- 7416666- [Mobile desalination plants and systems, and methods for producing desalinated water](#)
- 7416727- [Polypeptide variants with altered effector function](#)
- 7416734- [Vaccines for Mycoplasma bovis and methods of use](#)
- 7416745- [Preventives or remedies for infection, anti-endotoxin agents, vaccine adjuvants and growth promoters](#)
- 7416761- [Composite membrane and method for forming the same](#)
- 7417178- [Expression of human milk proteins in transgenic plants](#)

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