



PurMa Biologics, LLC

## PurMa™ FBS Lipid Depletion Procedure

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### Our proprietary method includes:

1. Applying isopropyl ether and butanol with a special ratio.
2. PurMa Biologics has spent many years determining the needed density of ether and butanol as well as the ratio of these two solvents in this process to gain the best result.
3. 4X washed each 3h hours with isopropyl ether-butanol with decreasing amount of butanol in every washing, in a way that the last two washes are carried out without butanol.
4. Dialyzing with a 3500 Dalton dialysis tube for 5 days with low salts physiological buffer at physiological pH.
5. To prepare 500 ml PurMa™ LD-FBS, 10 changes of 10 liters of buffer is needed.
6. The dialysis will be terminated when the buffers show no isopropanol using GC-MS.
7. The serum will be thoroughly analyzed for pathogens as well as growth and MTT (proliferation ability) using 2 cell lines. For complete details, please check the “Analysis Tab”.
8. The resulting high-quality serum is depleted of most of lipids and can still be used to support the growth and maintenance of many cell lines in culture.
9. USE NOT LESS THAN 15% SERUM IN YOUR MEDIA.