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(54) Title: LOW ORGANIC EXTRACTABLE DEPTH FILTER MEDIA PROCESSED WITH SOLVENT EXTRACTION METHOD

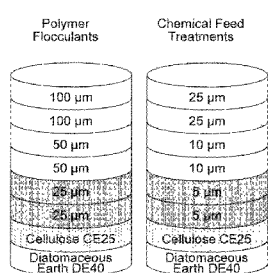


Figure 1A

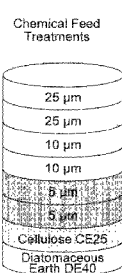


Figure 1B

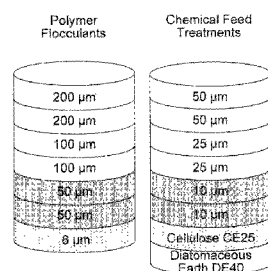


Figure 1C

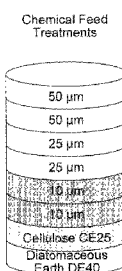


Figure 1D

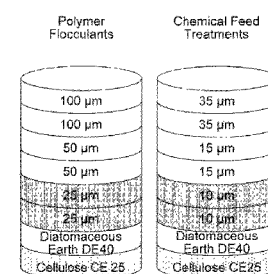


Figure 1E

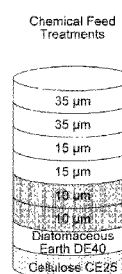


Figure 1F

(57) Abstract: Provided is a primary clarification depth filtration process of cell-culture feeds, including chemically treated flocculated feeds, containing target biomolecules of interest such as mAbs, mammalian cell cultures, or bacterial cell cultures, utilizing a primary clarification depth filtration device containing a media with significantly lower flushing requirements, resulting in lower levels of organic extractables released after media flushing, and increased throughput for the pre-treated feed streams, without the use of a primary clarification centrifugation step or primary clarification tangential flow microfiltration step. The primary clarification depth filtration device used in the primary clarification of fluid cell culture feeds, including chemically treated flocculated feeds containing flocculated cellular debris and/or colloidal particulates having a particle size distribution of about 0.5 μm to 200 μm, contains a porous depth filter media having porous layers of varying pore ratings, and achieves the desired level, of total organic extractables (1-3 ppm) measured in the feed filtered through the media with, significantly lower flushing requirements. Kits and methods of using and making the same are also provided.



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- *with international search report (Art. 21(3))*
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