



Reusability of CIM® Columns

Preparative applications:

Column	Application type	No. of cycles	Regeneration	Benefits
CIM® QA-800 Tube Monolithic Column	Bacteriophage production	70	As recommended in PSIS	
CIM® disk - anion exchanger	Synthetic oligonucleotides productions	1700	As recommended in PSIS	
CIM® r-Protein A-80 Tube Monolithic Column	Antibody production, filtered (0.2 µm) cell culture supernatant, diluted with PBS	20 purification runs with different mAbs	0.1 M Glycine, pH 2.2 20 mM Na-Citrate, 500 mM NaCl, pH 2.5	Fast purification platform, Ability to capture mAbs from diluted samples, No method optimization - applicable to different types of mAbs

Analytical applications:

Column	Application type	No. of injections	Regeneration
CIM® r-Protein A-0.34 Disk Monolithic Column	Antibody screening Used as standard QA method	100	
CIMac™ QA-0.1 Analytical Column	Ad5 virus titer monitoring	160	As recommended in PSIS
CIMac™ r-Protein L-0.1 Analytical Column	Antibody analysis	250	Regeneration every 70 runs, 0.1 M NaOH as recommended in PSIS
CIMac™ C4-0.1 Analytical Column	Protein analysis	500-700	
CIMac™ QA-0.1 Analytical Column	Separation of mixture of 4 standard proteins	42	No CIP
CIMac™ pDNA-0.3 Analytical Column	Separation of OC:SC pDNA isoforms from purified pDNA samples	1000	Regeneration after every 60 cycles, As recommended in PSIS
CIMac™ pDNA-0.3 Analytical Column	Separation of OC:SC pDNA isoforms from crude bacterial lysate	200	Regeneration after every 20 injections

CIP:

Column	Application type	No. of CIP cycles tested	Monitoring	Column performance
CIMac™ QA-0.1 Analytical Column	Influence of consecutive 20 minutes CIP (1 M NaOH) on the performance of monolithic column	100	Protein capacity, standard protein separation	Not altered
CIMac™ DEAE-0.1 Analytical Column		100	Protein capacity, standard protein separation	Not altered
CIMac™ SO3-0.1 Analytical Column		100	Protein capacity, standard protein separation	Not altered
CIM® QA-8 Tube Monolithic Column		50	Phosphate capacity and pulse response test	Not altered
CIM® QA-8000 Tube Monolithic Column		20	Phosphate capacity and pulse response test	Not altered
CIM® DEAE-800 Tube Monolithic Column		50	Phosphate capacity and standard protein separation	Not altered
CIMmultus™ C4 HLD-8 Advanced Composite Column	Influence of CIP cycles (60 minutes 1 M NaOH) on separation of proteins and plasmids	21	Pulse response test, Separation of pDNA isoforms	Not altered

For any additional information please contact us:

sales@biaseparations.com
Tel.: +386 5 9699 500

orders@monoliths.com
Fax.: +386 5 9699 599

tech-support@monoliths.com
www.biaseparations.com

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