

Protein concentrators, Thermo Scientific Pierce

Thermo
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NEW

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Disposable ultrafiltration centrifugal devices for concentration, diafiltration and buffer exchange of biological samples.

- Superior protein concentration and recovery - achieve greater than 110-fold protein concentration in less than 35min, with more than 90% protein recovery
- Spin formats for concentrating 1mL to 20mL of sample
- Universal rotor compatibility

Thermo Scientific Pierce protein concentrators effectively combine simplicity, speed, capacity and recovery to yield enhanced concentration, purification and separation of proteins - even with dilute protein samples. The concentrators provide efficient concentration of biological samples containing proteins (antigens, antibodies and enzymes), nucleic acids (DNA) and microorganisms (viral particles).

[†] Protein samples were centrifuged at 3,000xg for 45min at 22°C using a starting volume of 20mL with the 20mL concentrators and 5mL with the 7mL concentrators.

[‡] Fold concentration was determined by dividing the starting volume by the recovered (retentate) volume.

* For the 9K concentrators, percent recovery was calculated by measuring the absorbance at 409nm of the retentate adjusted with buffer to the original volume.

** For the 20K concentrators, percent recovery was determined using the Thermo Scientific Pierce micro BCA protein assay (PN23235).

Thermo Scientific Pierce protein concentrators provide exceptional recovery with low concentration samples.

Pierce concentrator	Protein [†]	Time, min	Protein concentration, mg/mL	Recovery, %	Fold concentration [‡]
20mL/9K*	Cytochrome C	45	0.2	100	121
			0.01	96	117
20mL/20K**	BSA	45	0.2	98	137
			0.01	95	118
7mL/9K*	Cytochrome C	35	0.2	96	137
			0.01	88	129
7mL/20K**	BSA	35	0.2	97	81
			0.01	87	65

Catalogue No	Description	Capacity, mL	Pack qty
PN87748	9K MWCO	7	10
PN89884A	9K MWCO	7	25
PN87749	9K MWCO	20	10
PN89885A	9K MWCO	20	25
PN87750	20K MWCO	7	10
PN89886A	20K MWCO	7	25
PN87751	20K MWCO	20	10
PN89887A	20K MWCO	20	25
PN89920	150K MWCO	7	10
PN89922	150K MWCO	7	25
PN89921	150K MWCO	20	10
PN89923	150K MWCO	20	25

Filter devices, centrifugal tubes, Spin-X®

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DNA removal from agarose or acrylamide gels.

- Polypropylene tube with snap cap

Spin-X filter by centrifugation for bacteria removal, particle removal, HPLC sample preparation, removal of cells from media and DNA removal from agarose or acrylamide gels.

Technical Specification - General

RCF, x g [max.]	16,000
Volume, working, µL	500
Tube volume, mL	2.0

Catalogue No	Alt. No	Membrane	Sterile, Yes/No	Pore size, µm	Pack qty
MPA-150-010C	8160	Cellulose acetate	Yes	0.22	96
MPA-150-020W	8161	Cellulose acetate	No	0.22	100
MPA-150-030T	8162	Cellulose acetate	Yes	0.45	96
MPA-150-040Q	8163	Cellulose acetate	No	0.45	100
MPA-150-050N	8169	Nylon	No	0.22	200
MPA-150-060K	8170	Nylon	No	0.45	200

