

## Designed to Maximize Sample Prep Efficiency

NAB Nanosep<sup>®</sup>, Nanosep, Macrosep<sup>®</sup>, and Microsep<sup>™</sup>, Centrifugal Devices

### FREE PRODUCT OFFER!

Buy 2 Packs of Nanosep, Microsep or Macrosep Centrifugal Devices, Get 1 of the same size FREE!

#### Applications

Centrifugal devices can replace traditional separation techniques, such as column chromatography, preparative electrophoresis, alcohol or salt precipitation, dialysis, and gradient centrifugation, when performing the following:

- Protein or nucleic acid concentration
- Desalting
- Buffer exchange
- Deproteination of biological samples
- Fractionation of protein mixtures
- Separation of primers from PCR products
- Separation of labeled nucleic acids or proteins from unincorporated nucleotides
- Virus concentration or removal
- Clarification of cell lysates and tissue homogenates
- Extracting, isolating and purifying nucleic acids

#### Benefits

- Accelerate sample processing – Concentrate and purify samples with starting volumes of < 50  $\mu$ L to 60 mL.
- Maximize sample recovery – Obtain high flow rates and low non-specific protein and nucleic acid binding.
- Add versatility – Available in various membrane types including low-binding
- Bio-Inert<sup>®</sup> (modified nylon), Supor<sup>®</sup> (polyethersulfone), and wwPTFE membranes, as well as Omega<sup>™</sup> (modified polyethersulfone) ultrafiltration membrane in a variety of MWCOs.
- Prevent solution bypass – Membrane seals stop solution leakage, minimizing sample loss.
- Easy visual identification – Devices are color-coded for a wide variety of membranes, ranging from 1 kD to 0.45  $\mu$ m.



## Nanosep Centrifugal Device

Concentration selection guide for Nanosep Centrifugal Devices

Concentration Factor (Fold)	Starting Sample Volume (µL)	Volume Added to Collection Tube (µL)	Final Retentate Volume (µL)
2	200	572	100
3	200	530	67
4	200	508	50
5	200	496	40
6	200	487	33
10	200	470	20
20	200	470	10
25	200	455	8

## Microsep Advance Centrifugal Device

Concentration selection guide for Microsep Advance Centrifugal Devices

Concentration Factor (Fold)	Starting Sample Volume (mL)	Volume Added to Collection Tube (mL)	Final Retentate Volume (mL)
2	3.00	6.69	1.50
3	3.00	5.76	1.00
4	3.00	5.29	0.75
5	3.00	5.02	0.60
6	3.00	4.83	0.50
10	3.00	4.46	0.30
20	3.00	4.18	0.15
25	3.00	4.12	0.12

The above table shows what buffer volume should be added to the collection tube below the membrane to achieve desired concentration factors for the listed starting sample volume.

For instance, for the concentration of 200 µL starting material by ten-fold (see highlight in table), the buffer volume to be added to the collection tube would be 470 µL, leaving 20 µL of concentrated material in the retentate.

For a complete Concentration Selection Guide visit: [www.pall.com](http://www.pall.com)

## Ordering Information

### Qualifying Nanosep Centrifugal Devices

Part Number	Size	Pkg
PAL-OD003C33	3K, gray	24/pkg
PAL-OD010C33	10K, blue	24/pkg
PAL-OD030C33	30K, red	24/pkg
PAL-OD100C33	100K, clear	24/pkg
PAL-OD300C33	300K, orange	24/pkg

### Qualifying NAB Nanosep Centrifugal Devices

Part Number	Size	Pkg
PAL-ODNABC33	NAB Nanosep Device	24/pkg

*Promotion available until December 31, 2021.*

*Promotion assumes products are purchased at local list pricing. Contact your local ESBE representative with any questions.*




### Qualifying Macrosep Advance Centrifugal Devices

Part Number	Size	Pkg
PAL-MAP001C37	1K, yellow	24/pkg
PAL-MAP003C37	3K, gray	24/pkg
PAL-MAP010C37	10K, blue	24/pkg
PAL-MAP030C37	30K, red	24/pkg
PAL-MAP100C37	100K, clear	24/pkg

### Qualifying Microsep Advance Centrifugal Devices

Part Number	Size	Pkg
PAL-MCP001C41	1K, yellow	24/pkg
PAL-MCP003C41	3K, gray	24/pkg
PAL-MCP010C41	10K, blue	24/pkg
PAL-MCP030C41	30K, red	24/pkg
PAL-MCP100C41	100K, clear	24/pkg

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