

# What's new from MACHEREY-NAGEL

New products, new possibilities

20%  
OFF



## Next level innovations for your lab

- ▷ Cutting edge solutions for preparatory scale plasmid DNA purification and RNA clean-up
- ▷ Automatable options with customizable protocols streamline sample prep
- ▷ Explore the latest advancements in DNA / RNA extraction

## What's new? New products, new possibilities

MACHERY-NAGEL is dedicated to delivering innovative solutions that address common challenges in DNA and RNA purification workflows. The latest products include options for difficult sample materials, large-scale plasmid purification or RNA clean-up projects, and automated protocols designed to reduce hands-on time and enhance reproducibility. Discover what's new from MACHERY-NAGEL and see how we can support your lab's evolving needs!



Promotion products	Item no.	Preps	List price	Promotion price
<b>Plasmid DNA purification</b>				
NucleoMag® Plasmid	744750.1M	96	2.514 SEK	2.011 SEK
NucleoMag® Plasmid	744750.4M	384	8.571 SEK	6.857 SEK
NucleoMag® Clearing Beads	744751.1M	96	889 SEK	711 SEK
<b>Preparatory scale plasmid purification and / or RNA clean-up</b>				
NucleoBond® RS 10	743502M	5	5.146 SEK	4.117 SEK
NucleoBond® RS 50	743503M	1	4.941 SEK	3.953 SEK
NucleoBond® RS 100	743504M	1	9.352 SEK	7.482 SEK
NucleoBond® RS 200	743505M	1	16.503 SEK	13.202 SEK
<b>RNA purification</b>				
NucleoMag® RNA Blood	744352.1M	96	7.429 SEK	5.943 SEK
NucleoMag® RNA Blood	744352.4M	384	21.911 SEK	17.529 SEK
NucleoSpin® 96 RNA Plant & Fungi	740128.1M	96	5927 SEK	4.742 SEK
NucleoSpin® 96 RNA Plant & Fungi	740128.4M	384	19267 SEK	15.414 SEK
<b>DNA purification</b>				
NucleoMag® HMW DNA	744160.1M	96	4.364 SEK	3.491 SEK
NucleoBond® HMW DNA	740160.20M	20	2.490 SEK	1.992 SEK
NucleoSpin® Mycoplasma DNA	740860.50M	50	3.836 SEK	3.069 SEK
<b>Viral RNA / DNA and bacterial DNA purification</b>				
NucleoMag® VET Prefilled Plates	744209M	96	5.975 SEK	4.780 SEK
NucleoMag® Pathogen Prefilled Plates	744211M	96	6.468 SEK	5.174 SEK
<b>Library prep, DNA / RNA clean-up</b>				
NucleoMag® NGS Clean-up and Size Select	744970.50M	50 mL	7.850 SEK	6.280 SEK
NucleoMag® NGS Clean-up and Size Select	744970.500M	500 mL	54.301 SEK	43.441 SEK
<b>Lysis reagent for direct PCR/qPCR</b>				
NucleoType DirectLyse Reagent	743220M	500	2.778 SEK	2.222 SEK
<b>Accessories</b>				
MN Beads Starter Pack	740818M	12	1.204 SEK	963 SEK

Offer is valid from February 1, 2025 until March 31, 2025. Prices are in SEK excl. vat. Offer cannot be combined with any other discounts. We are not liable for typographical errors. Please state campaign code when ordering: **CM00449**

## Supporting products for your workflow

### Optimal purification for your NucleoMag®



The Magnetapure series provides automated nucleic acid purification in an open system for 16, 32, or 96 parallel magnetic bead purifications.

Purification of DNA, RNA, proteins and cells from a wide variety of samples such as blood, bacteria, tissue, body fluids and plants.

Easy programming to adapt your current magnetic beads or use one of the several already validated protocols are available.

MagnetaPure Mini  
nucleic acid extraction system



Item no.: 531623

MagnetaPure 32 Plus  
nucleic acid extraction system



Item no.: 255744

MagnetaPure 96  
nucleic acid extraction system



Item no.: 255745

## Optimal quality control of your samples



DS-Series instruments offer choices of 1µL UV-Vis, cuvette UV-Vis, and fluorescence modes. Explore our model offerings to find the perfect fit for your lab's quantification needs.

- Real-time optimization of every sample and no recalibration required
- Rapid DNA, RNA & protein quantification - widest dynamic range: 0.0005 – 37,500 ng/µL dsDNA
- Flexible export and connectivity - Wi-Fi, USB, email, ethernet and more

New models  
Demo available



DS-11 FX+



DS-11 FX



DS-11+



DS-11



DS-8X



DS-7

	DS-11 FX+	DS-11 FX	DS-11+	DS-11	DS-8X	DS-7
1 µL UV-Vis Samples	✓	✓	✓	✓	✓ x 8	✓
Cuvette Absorbance	✓	-	✓	-	✓	✓
Fluorescence	✓	✓	Add On	Add On	Add On	Upgrade Required
Detection Limit (dsDNA)	0.0005 – 37,500 ng/µL	0.0005 – 37,500 ng/µL	0.75 – 37,500 ng/µL	0.75 – 37,500 ng/µL	2 – 11,000 ng/µL	2 – 15,000 ng/µL

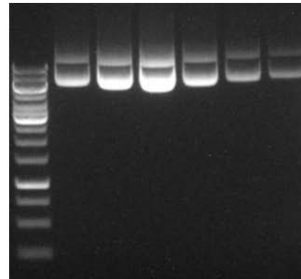
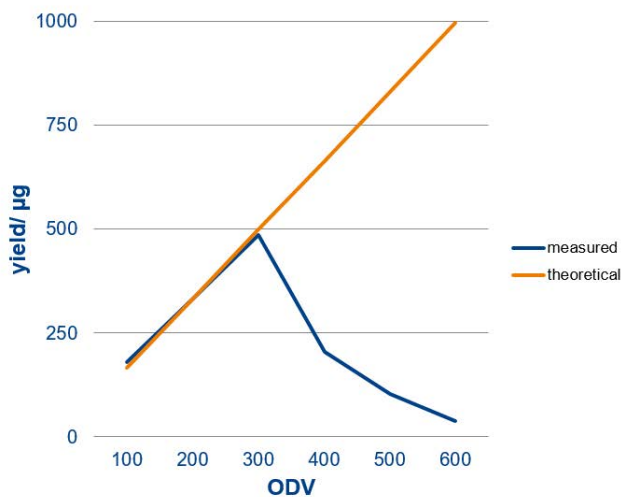
## Why is measuring OD600 important before plasmid purification?

Measuring OD600 ensures the correct amount of bacterial culture is used, avoiding issues like reduced plasmid yield caused by overloading or underloading purification columns.

While too few cells result in low yields, too many cells can:

- Lead to insufficient lysis
- Reduce plasmid DNA recovery
- Increase contaminants such as host proteins, genomic DNA, and RNA

Overloading disrupts the balance of lysis buffer to culture, diluting the buffer and causing incomplete lysis. Instead of some cells remaining intact while others are fully lysed, most cells are only partially lysed, significantly reducing plasmid yield.



**Figure 1:** Excess cell input drastically reduces plasmid DNA yield ( $\mu\text{g}$ ), as seen in the gel image. The misbalance between pelleted culture volume and OD600 leads to lower yields. The graph compares theoretical plasmid yield (orange) with actual purified yield (blue). ODV is calculated by multiplying OD600 (adjusted for dilution) by pelleted culture volume. For example, a 100 mL culture with OD600 of 3.5 (0.35 in 1:10 dilution) gives an ODV of  $100 \times 3.5 = 350$ .

## Introducing the Implen OD600®

### – Effortless OD600 Measurement

- Portable and Convenient: Battery-powered with direct touchscreen operation.
- User-Friendly Design: Intuitive interface for seamless use.
- Rapid Results: Quickly determine cell density at 600 nm up to 4 AU.
- Unmatched Compatibility: Works with cuvettes, reagent tubes (10, 12, 16, 18 mm), and Dilucell™, no adapters needed.
- Hygienic and Practical: Smooth, easy-to-clean glass surface, perfect for laminar flow or biosafety hoods.

List price: 15.500 SEK



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If you're unable to find the products you need, contact your local Product Specialists, who are ready to assist you in finding the best solutions for your research.

Our dedicated team of molecular biology specialists brings extensive experience from academia, pharma, and industry. We're here to discuss your specific needs and provide tailored support.

Your science - our focus



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