



# **Processing of 8-well strips under centrifugation**

**User manual**  
Starter Set C

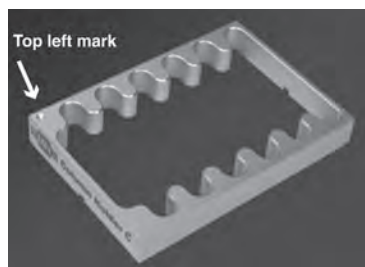
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# 1 Contents

Starter Set C	
REF	740684
Column Holder C	2
MN Square-well Block	2
Rack of Tube Strips (1 set consists of 1 rack, 12 strips with 8 tubes each, and 12 Cap Strips)	2
User manual	1



**Figure 1: Column Holder C** (note top left mark for orientation)

## 2 Product description

The Starter Set C is designed for the use of the NucleoSpin® 8-well strips under centrifugation using suitable centrifuges with a swinging bucket rotor capable to accommodate the NucleoSpin® Binding Strip / Square-well Block sandwich (bucket height: 85 mm) and reaches accelerations of 5,600–6,000 x *g*.

The set contains two Column Holders C to hold the NucleoSpin® 8-well strips on top of the MN Square-well Block during centrifugation for binding, washing, and drying. During elution, the Column Holder C is used to hold the NucleoSpin® 8-well strips on top of a Rack of Tube Strips.

The system allows flexible processing of the NucleoSpin® 8 kits by using one to 12 strips per run. It is required to use both Column Holders C and distribute the strips between them to fill both buckets of the rotor equally to prevent centrifuge imbalances. Make sure that the centrifuge is properly balanced.

## 3 Handling

The desired number of 8-well strips is placed in the Column Holder C. The Column Holder is then rested on top of a MN Square-well Block, collecting the waste during centrifugation (Figure 2).

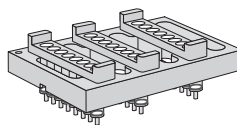
For elution, the Column Holder C with the NucleoSpin® 8-well strips is rested on top of the Rack of Tubes Strips during centrifugation. Insert Tube Strips supplied with the NucleoSpin® 8 kit in rows underneath the NucleoSpin® 8-well strips. The other rows also have to be filled with Tube Strips (e.g., supplied in the Starter Set C) to support the Column Holder C on the rack. This prevents contamination of Tube Strips from the kit intended for later use (Figure 3).

Stringently respect the maximal loading mass compatible with your centrifuge. Consult your centrifuge user manual! Consider complete mass of Column Holder C, 8-well strips, MN Square-well Block or Rack of Tube Strips, and liquid filling!

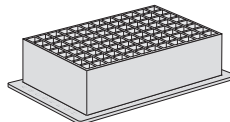
Maximal allowed centrifugal force for Column Holder C assemblies is 6,000 x *g*. Do not expose Column Holder C assemblies to higher *g*-force! Pay attention to the orientation of the Column Holder C. Position the mark (cone shape gravity) to the top left, as depicted in Figure 1.

If less than 6 NucleoSpin® 8-well strips are used per Column Holder C, distribute them as equally as possible within the Column Holder. If only one NucleoSpin® 8-well strip is used, position it in the center. If three NucleoSpin® 8-well strips are used, place them in every other position.

NucleoSpin® Binding Strips  
in Column Holder C

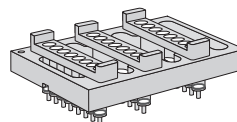


MN Square-well Block

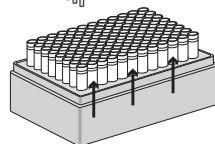


**Figure 2: Setup during binding/washing/elution steps**

NucleoSpin® Binding Strips  
in Column Holder C



Rack of Tube Strips



*Note: During centrifugation,  
new Tube Strips are aligned  
under the 8-well strips to collect  
the eluate (↑).  
The other rows have to be filled  
with Tube Strips supplied in  
the Starter Set C to support the  
Column Holder C on the rack.*

**Figure 3: Setup during elution step**

## 4 Appendix

### 4.1 Maintenance of Column Holder C

If necessary, clean Column Holder C with water and soap and/or ethanol. Do not use bleach or acid to clean Column Holder C because this might corrode the aluminium.

### 4.2 Troubleshooting

Problem	Possible cause and suggestions
Broken Tube Strips, Column Holder C, or NucleoSpin® 8-well strips	<p><i>Sandwich not properly assembled</i></p> <ul style="list-style-type: none"> <li>Do not exceed recommended centrifugation speed and force as specified with your centrifuge and the MN kit protocol.</li> <li>Make sure that the rack is completely filled with Tube Strips during the centrifugation step to properly level the Column Holder C holding the NucleoSpin® 8-well strips.</li> <li>Occasionally replace Tube Strips which are used to fill up the rack between the Tube Strips used for elution. Permanent reuse of Tube Strips might cause instability due to aging and material fatigue.</li> </ul>

### 4.3 Ordering information

Product	REF	Pack of
Starter Set C (for processing NucleoSpin® 8-well strips under centrifugation)	740682	1 set
Rack of Tube Strips (1 set consists of 1 rack, 12 strips with 8 tubes each, and 12 Cap Strips)	740637	5 racks
MN Square-well Block	740678	20
Self-adhering PE Foil	740676	50 sheets
Gas-permeable Foil	740675	50 sheets

Visit [www.mn-net.com](http://www.mn-net.com) for more detailed product information.

## 4.4 Product use restriction/warranty

**Starter Set C** components are intended, developed, designed, and sold FOR RESEARCH PURPOSES ONLY, except, however, any other function of the product being expressly described in original MACHEREY-NAGEL product leaflets.

MACHEREY-NAGEL products are intended for GENERAL LABORATORY USE ONLY! MACHEREY-NAGEL products are suited for QUALIFIED PERSONNEL ONLY! MACHEREY-NAGEL products shall in any event only be used wearing adequate PROTECTIVE CLOTHING. For detailed information please refer to the respective Material Safety Data Sheet of the product! MACHEREY-NAGEL products shall exclusively be used in an ADEQUATE TEST ENVIRONMENT. MACHEREY-NAGEL does not assume any responsibility for damages due to improper application of our products in other fields of application. Application on the human body is STRICTLY FORBIDDEN. The respective user is liable for any and all damages resulting from such application.

DNA/RNA/PROTEIN purification products of MACHEREY-NAGEL are suitable for *IN VITRO*-USES ONLY!

ONLY MACHEREY-NAGEL products specially labeled as IVD are also suitable for *IN VITRO*-diagnostic use. Please pay attention to the package of the product. *IN VITRO*-diagnostic products are expressly marked as IVD on the packaging.

IF THERE IS NO IVD SIGN, THE PRODUCT SHALL NOT BE SUITABLE FOR *IN VITRO*-DIAGNOSTIC USE!

ALL OTHER PRODUCTS NOT LABELED AS IVD ARE NOT SUITED FOR ANY CLINICAL USE (INCLUDING, BUT NOT LIMITED TO DIAGNOSTIC, THERAPEUTIC AND/OR PROGNOSTIC USE).

No claim or representations is intended for its use to identify any specific organism or for clinical use (included, but not limited to diagnostic, prognostic, therapeutic, or blood banking). It is rather in the responsibility of the user or - in any case of resale of the products - in the responsibility of the reseller to inspect and assure the use of the DNA/RNA/protein purification products of MACHEREY-NAGEL for a well-defined and specific application.

MACHEREY-NAGEL shall only be responsible for the product specifications and the performance range of MN products according to the specifications of in-house quality control, product documentation and marketing material.

This MACHEREY-NAGEL product is shipped with documentation stating specifications and other technical information. MACHEREY-NAGEL warrants to meet the stated specifications. MACHEREY-NAGEL's sole obligation and the customer's sole remedy is limited to replacement of products free of charge in the event products fail to perform as warranted. Supplementary reference is made to the general business terms and conditions of MACHEREY-NAGEL, which are printed on the price list. Please contact us if you wish to get an extra copy.

There is no warranty for and MACHEREY-NAGEL is not liable for damages or defects arising in shipping and handling (transport insurance for customers excluded), or out of accident or improper or abnormal use of this product; defects in products or

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