

INTRODUCTION

These are the instructions for use for the QuicPick™ magnetic tool. Please read the entire instructions carefully before starting to work. QuicPick™ is intended to be used together with BN Products & Services' Bio-Nobile™ QuicPick™ kits, however the tool is compatible with all other magnetic particles chemistries. Please refer to the relevant kit instructions for use.

The QuicPick™ is designed to transfer magnetic particles when working with small liquid volumes, less than 5 ml.

SPECIFICATIONS

Number of magnets:	1
Physical size of magnet:	Diameter 3 mm, length 20 mm
Type of magnet:	Diametrically magnetized Neodium magnet
Max. temperature for magnet:	+80°C
Typical vessel formats:	Tubes, PCR tubes, U- or V- bottom 96 well plates, deep-well plates, 8 well strips, various reservoirs and bottles

MAGNETIC BIOSEPARATION PRINCIPLES

Bioseparation is the isolation of biological substances that range from simple molecules to cell components, complete cells or even complete organisms. In magnetic bioseparation techniques the substance to be isolated is bound to a magnetic or paramagnetic particle through a suitable surface chemistry. With the QuicPick™, particles can be directly transferred from liquid to liquid, without the use of an external magnetic rack. This makes sample processing simple and straightforward. In contrast to spin-column methods, repeated centrifugations are avoided, which also makes the process gentle and fast.

DESCRIPTION OF THE QuicPick™

The magnet is normally withdrawn into the plastic handle when not in use. The magnet is pushed out and locked when the operating lever is pressed down and locked into place. Do not use excessive force when operating the lever – the lever is designed for simple thumb control... The tip is mounted onto the bayonet end of the tool. The tip is simply slid onto the protrusion until held firmly in place. The tip protects the magnet and eliminates sample contamination. The tip is ejected by pressing on the second green lever at the top on the handle. (Make sure you press the operating lever, and not the eject button, when extending and withdrawing the magnet.)

When not in use, the magnet should always be withdrawn.

Using QuicPick™

With the magnet withdrawn into the handle, pick up a QuicPick™ tip from the tip box ☞. Check that the tips are firmly in place on the carrier sleeve close to the base. Press the operating lever to extend the magnet into the tip. Check that the tip still remain in position on the carrier sleeve. Release the operating lever to withdraw the magnet. After use, press the eject button to discard the tips.

The tips are autoclavable and can also be treated with suitable chemistry to remove any RNase/DNase residues. The tip box can be autoclaved

Moving particles

QuicPick™ is designed for use with QuicPick™ kits supplied by BN Products & Services as well as all other paramagnetic particle kits. Specific instructions are given in the respective kit inserts. It is also possible to work with other magnetic particles, but note that the suitability and test protocols for these have to be separately established. Contact technical support at BN Products & Services for more information.

General instructions for working with QuicPick™:

Pick up a disposable tip from the container as described above. Check that the tip is firmly in place by extending the magnet. Lock the magnet in the extended position.

· Slowly dip the tip into the suspension containing the magnetic particles and begin to collect starting at the surface of the liquid. Gradually go deeper into the liquid while stirring gently. This step may take from a few seconds up to a minute depending on the amount of particles and the viscosity of the suspension.

Once you have collected the particles, withdraw the QuicPick™ from the solution. The particles will remain attached to the tips due to the magnetic force.

¹ To transfer and wash particles, dip the tip with the particles just below the surface of the next solution and release the operating lever to withdraw the magnet. Stir & tap the tip gently to release the particles into the solution. This step may also take from a few seconds up to a minute. Collect the particles again by extending the magnet, and repeat the wash and transfer steps as necessary. The same tip can be used for all the steps in purifying one sample, but should be changed between samples.

STORAGE AND MAINTENANCE

QuicPick™ tool should be stored in a clean dry place, for example in its own box, with the magnet withdrawn. Do not store close to magnetic tapes, computer discs or other magnetic storage systems, as they can be damaged by the magnetic field.

QuicPick™ tool does not require any recalibration and should not be disassembled. The tool must not be autoclaved or exposed to temperatures above +80°C which will demagnetize the magnet. The tool can be wiped clean with a mild detergent as necessary.

DISCLAIMERS AND WARRANTIES

BN Products & Services warrants that its products shall be free from defects in materials and workmanship and shall meet performance specifications if stored and used in accordance with the instructions for use. This warranty does not cover normal wear and tear or misuse of the product. BN Products & Services' obligation and the purchaser's exclusive remedy under this warranty are limited to replacement, at BN Products & Services' expense, of any products defective in manufacture. In no event shall BN Products & Services be liable for any special, incidental or consequential damages. This warranty statement may be subject to modification in accordance with local laws, regulations and business practices.