

ProbeQuant G-50 Micro Columns



Use spin-column chromatography to provide a fast and reliable method for purifying labeled probes from unincorporated labeled nucleotides

ProbeQuant G-50 Micro Columns use spin-column chromatography to provide a fast and reliable method for the preparation of DNA probes, separating them from unincorporated labeled nucleotides.

- For rapid purification of labeled DNA (≥ 20 bases) from unincorporated labeled nucleotides in a volume of 25 to 50 μL using spin-column chromatography
- Prepacked with Sephadex G-50 DNA Grade and pre-equilibrated in STE containing 0.15% Kathon CG/ICP Biocide for convenience

- Ready to use and requires less than 4 minutes from sample application to collection of purified product
- Designed for use in a microcentrifuge
- Tested in assays: nickase, single and double-stranded exonuclease and RNase

ProbeQuant G-50 Micro Columns use spin-column chromatography to provide a fast and reliable method for purifying labeled probes from unincorporated labeled nucleotides. In addition, a portion of the eluted DNA can be counted in a scintillation counter and compared to an unpurified sample to give an approximation of percent incorporation.

The columns are designed for use in a microcentrifuge, come prepacked with Sephadex G-50 DNA grade and are pre-equilibrated in STE, which means that they are ready to use. They can accommodate samples ranging in volume from 25 μ L to 50 μ L.

The resin used in these columns, Sephadex G-50 DNA Grade ([/shop/molecular-biology/purification/gel-filtration-columns/illustra-sephadex-g-50-dna-grade-p-00113](#)), can be used in a wide range of applications, including desalting DNA, buffer exchange, and removal of unincorporated nucleotides from end-labelled oligonucleotides.

MicroSpin columns ([/shop/molecular-biology/purification/gel-filtration-columns/microspin-columns-p-00044](#)) packed with Sephadex G-50 DNA Grade are ideal for the rapid purification of DNA for use in a wide range of applications, including desalting DNA, buffer exchange, and removal of unincorporated nucleotides from end-labelled oligonucleotides .

Sephadex G-50 is one of five different G-types ranging from G-10 for small molecules to G-75 for larger molecules. Sephadex G-50 is a well-established size exclusion chromatography resin for desalting and buffer exchange of biomolecules > 30 000 molecular weight, and with a spin protocol can be used for DNA and oligo purification of molecules greater than 20 bases in length.

Alternatively, Sephadex G-25 ([/shop/molecular-biology/purification/gel-filtration-columns/illustra-sephadex-g-25-dna-grade-p-00054](#)) or Sephadex G-100 ([/shop/molecular-biology/purification/gel-filtration-columns/illustra-sephadex-g-100-dna-grade-p-00198](#)) can be used. Sephadex G-25 has an exclusion limit of approximately Mr 5000, and with a spin protocol this means it can be used for any DNA greater than 10 bases in length.

Sephadex G-100 DNA Grade has an exclusion limit of 25bp ds DNA.

All these Sephadex types are therefore suitable for the purification of oligonucleotides or small DNA fragments following synthesis or a labeling reaction.

Product Specifications ^

ProbeQuant G-50 Micro Columns



Parameter	ProbeQuant G-50 Micro Columns
Sample volume	50 µl
Storage	4 to 30°C
Pack size	50 columns