

Certificate of Analysis

His60 Ni Superflow Cartridges

Catalog Nos.	Amount	Lot Number
635679	5 x 5 ml cartridges	Specified on product label.
635680	1 x 5 ml cartridge	Specified on product label.

Description

Prepacked cartridges, each containing 5 ml of His60 Ni Superflow Resin, for the purification of recombinant his-tagged proteins. These cartridges are suitable for automated purification using medium-pressure systems such as ÄKTA FPLC or manual, syringe-based purification. Proteins can be purified under native or denaturing conditions. Each column can be reused up to 5 times to purify different preparations of the same protein.

Package Contents

635679 (5 x 5 ml cartridges):

- 5 His60 Ni Superflow Cartridge (5 ml each)
- 5 Top Cap
- 5 Snap-off End Cap

635680 (1 x 5 ml cartridge):

- 1 His60 Ni Superflow Cartridge (5 ml each)
- 1 Top Cap
- 1 Snap-off End Cap

Storage Conditions

- Store at 4°C.

Expiration Date

- Specified on product label.

Storage Buffer

- Nonbuffered 20% ethanol

Shipping Conditions

- Room temperature

Product Documents

Documents for our products are available for download at [takarabio.com/manuals](https://www.takarabio.com/manuals)

The following documents apply to this product:

- His60 Ni Superflow Cartridges User Manual

Takara Bio USA, Inc.

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Cat. Nos. 635679 & 635680

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Quality Control Data

Metal loading analysis:

Each lot of His60 Ni Superflow Cartridges is guaranteed to have a nickel metal loading of ≥ 25 $\mu\text{mol/ml}$ of bed volume. The amount of bound nickel is determined by atomic spectroscopy.

Functional test:

The His60 Ni Superflow Resin in the His60 Ni Superflow Cartridges was functionally tested using his-tagged GFPuv and the His60 Ni Buffer Set (Takara Bio, Cat. No. 635665). One ml of His60 Ni Superflow Resin was saturated with a bacterial his-tagged GFPuv lysate in xTractor Buffer. The resin was washed two times with 5 ml of His60 Ni Equilibration Buffer (pH 7.4) and then two times with 5 ml of Wash Buffer (pH 7.4). Bound protein was eluted three times with 1 ml of His60 Ni Elution Buffer (pH 7.4). All eluted fractions were analyzed by electrophoresis on a 12% SDS polyacrylamide gel to verify the purity of the eluted protein. A strong his-tagged GFPuv protein band was evident in at least one lane containing eluted sample.

It is certified that this product meets the above specifications, as reviewed and approved by the Quality Department.

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CATALOG NOS.

635679 & 635680

NOTICE TO PURCHASER:

Our products are to be used for **Research Use Only**. They may not be used for any other purpose, including, but not limited to, use in humans, therapeutic or diagnostic use, or commercial use of any kind. Our products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products or to provide a service to third parties without our prior written approval.

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