

Pipetting instructions
for
KingFisher 96 protocol KF96_RPC
utilizing Dynabeads[®] RPC18

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Designed to use KingFisher 96 Head for KingFisher 96 plate.

Description

Protocol KF96_RPC is intended for purification of peptides from different starting materials e.g serum, plasma using Dynabeads® RPC 18. Purification of 96 samples will approximately take 10 minutes.

KingFisher 96 protocol

Importing protocols from the web

KingFisher 96 Software protocol KF96_RPC can be downloaded from the website (www.thermo.com/kingfisher). First you have to **save the protocol to your computer**.

1. Open KingFisher Software.
2. Select **Protocol** → **Import/Export data**.
3. Click **Read file**.
4. Select the database (*.KF2) by browsing in the **Open** dialog and click **Open**.
5. Select the protocol(s) you wish to import from the *Protocols in file* list. Use the SHIFT key together with the mouse button to select protocols between two clicked protocols and the CTRL key to select only the clicked protocols.
6. Tick **Update existing** if you wish to overwrite the protocols with identical protocol name(s) in the target database.
7. Click **Import**.

You will receive a message stating whether the database updating procedure was successful or not.

KingFisher 96 process

Note !

Protocol KF96_RPC is designed to use KingFisher 96 Head for KingFisher 96 plate.

Table 1 Plate description in **KF96_RPC** protocol

Plate	Plate type
Tip plate	KF96 plate with KF96 tip comb
Bead plate	KF96 plate
Bead wash	KF96 plate
Sample	KF96 plate
Water wash 1	KF96 plate
Water wash 2	KF96 plate
Water wash 3	KF96 plate
Elution	KF96 plate

Table 2 Pipetting instructions for **KF96_RPC**

Plate	Content	Sample/Reagent volume
Bead plate	RPC18 beads Binding solution	50 µl 150 µl
Bead wash	Binding solution	200 µl
Sample plate	Sample with binding solution	20µl 80 µl
Water wash1	Wash buffer	200 µl
Water wash2	Wash buffer	200 µl
Water wash3	Wash buffer	200 µl
Elution plate	Elution solution 50% acetonitrile	40 µl

1. Fill the plates according to instruction in table 1 and 2.
2. Choose and start the protocol KF96_RPC and load the plates as guided by the protocol.
3. Remove the plates from KingFisher 96 after program has completed.

Reagents (see note below)

Binding solution

- 200 mM NaCl/0.1% TFA
- 0.1% TFA

Wash buffer

- DDW, double distilled water

Elution solution

- 50% acetonitrile

Note ! Reagents can be modified according to user preference. The suggested solutions were utilized by test laboratories.

The sample amount can also be changed. If volume in the well is changed the protocol needs to be modified accordingly using KingFisher SW.

More information of manufacturer recommendations see package insert of Dynabeads® RPC 18
http://www.invitrogen.com/content/sfs/manuals/102.0102_Dynabeads_RPC_18.pdf

Ordering Information

Product no.	Product Description
540 05 00	KingFisher 96, 110V-240V, Magnetic particle processor
97002524	KingFisher 96 tip comb for KF magnets, 10 x 10 pcs / box
97002540	KingFisher 96 KF plate (200ul) 48 plates / box
102.01	Dynabeads® RPC 18 2 m <i>Order from Invitrogen</i>
102.02	Dynabeads® RPC 18 5 x 2 ml <i>Order from Invitrogen</i>

Contact information