

KingFisher® Flex process with 24 magnet head and BioSprint 96 DNA Blood Kit (Qiagen)

Sample process

1. Fill the plates according to the **Table 1**. More information about the reagents in the BioSprint 96 DNA Handbook, Qiagen, catalog no. 940054.

Plate number	Plate type	Plate name	Content	Sample/reagent volume
1	KingFisher Flex 24 deep well plate	Lysis / Bind	Buffer AL Blood Proteinase K	1000 µl 1000 µl 100 µl
Dispense step, add...				
1			Isopropanol MagAttract suspension G	1000 µl 150 µl
2	KingFisher Flex 24 deep well plate	Wash 1 AW1	Buffer AW1	3000 µl
3	KingFisher Flex 24 deep well plate	Wash 2 AW1	Buffer AW1	3000 µl
4	KingFisher Flex 24 deep well plate	Wash 3 AW2	Buffer AW2	3000 µl
5	KingFisher Flex 24 deep well plate	Wash 4 AW2	Buffer AW2	3000 µl
6	KingFisher Flex 24 deep well plate	Aqua 0.02% tw20	Rnase Free water 0.02% Tween 20	3000 µl
7	KingFisher Flex 24 deep well plate	Elution	Elution Buffer BN	500 µl

Table 1. Filling the plates

2. Start the “**Qiagen DNA Blood- Flex24**” protocol using **arrow keys** and **START** button. You can also run the protocol using a computer, for more details see BindIt software user manual .
3. Load the plates according to the protocol request and press **START** after every plate to confirm the action. Use KingFisher Flex 24 deep well tip comb and plate for tip loading.

Note! Confirm that the plates are placed in correct orientation: A1 well to be pointed to upper right corner of the plate holder in turntable. A1 row of the plate is then always located in the inner circle of the turntable.

4. The purification protocol will start when the last plate is loaded and **START** button is pressed.
5. **Dispense step:** After lysis add 150 µl of resuspended MagAttract suspension G and 1000 µl of isopropanol to plate 1. Beads and isopropanol may be premixed before addition to plate 1.
6. After the purification process is completed the plates are removed according to instructions shown in the instrument screen. Press **START** after each plate removal to confirm the action.
7. When the last plate is removed text End of run will appear. Press **STOP** to complete the run.