

Intabio ZT cartridge

The Intabio ZT cartridge is used for microfluidic chip-based isoelectric focusing separation with integrated on-chip electrospray ionization for MS detection using the ZenoTOF 7600 system.

The Intabio ZT cartridge includes the following components:

- A microfluidic chip that combines isoelectric focusing separation with integrated on-chip electrospray ionization for MS detection
- Sealed reservoirs for electrolytes and mobilizer solutions
- Ports and electrodes on the bottom for the gas, fluidic, and electrical contact with the base of the Intabio ZT system.

The notch on the left side of the cartridge as well as the hole between the anolyte and the catholyte port assist with the mounting alignment on the base of the system.

Table A-1 Kit Contents

Kit Contents	
Intabio ZT cartridge, including three reservoir caps and chip cover	One cartridge per pack
Capacity	15 injections per cartridge Note: Do the 15 injections in a 16-hour period. During this period, do not remove the cartridge or let the cartridge become dry. The cycle time for each injection is about 30 minutes.

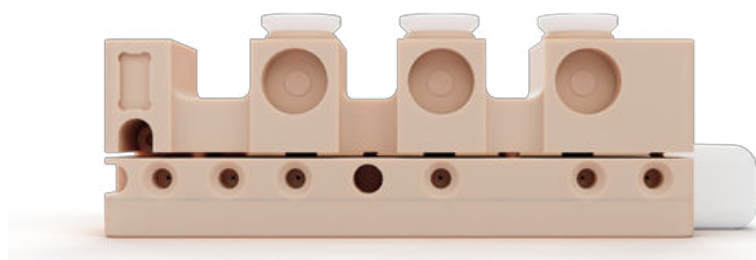
Table A-1 Kit Contents (continued)

Kit Contents	
Storage conditions before use	Room temperature

Figure A-1 Top View of the Intabio ZT cartridge



Figure A-2 Bottom View of the Intabio ZT cartridge with Sealed Reservoirs



For a list of reagents and consumables, refer to the document: *Parts and Equipment Guide*.

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Care and Handling



WARNING! Electrical Shock Hazard. Do not spill any liquid on the cartridge. Wipe away any liquid before installing the cartridge or use canned air to gently dry the cartridge.

CAUTION: Potential System Damage. Do not touch the recessed optical window or the electrodes of the cartridge to avoid damaging the equipment.

CAUTION: Potential System Damage. Make sure that the electrospray ionization (ESI) tip does not touch any surfaces when removing the cartridge from the packaging or handling the cartridge to avoid damaging the cartridge.

CAUTION: Potential System Damage. Make sure to always wear clean gloves when handling the cartridge to avoid leaving any contaminants, including skin oils, on the surface of the cartridge. Contaminants can create high voltage paths that will impede proper operation of the cartridge and the instrument.

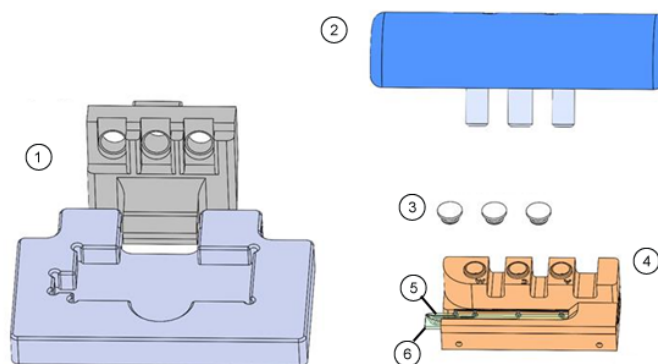
CAUTION: Potential System Damage. Make sure to always add an analyte solution to the reservoir on the left, catholyte solution to the middle reservoir, and the mobilizer solution to the reservoir on the right. Adding the electrolytes and mobilizer solutions to the incorrect reservoirs can damage the cartridge.

For more information about preparing the cartridge for analysis, use the System Helpers in the Intabio software.

Refer to the following figure for a description of the parts of the cartridge and Intabio system—Cartridge Cap Installation Fixture. To make sure that the cartridge operates correctly, use this tool to apply equal pressure to the caps to seal the filled reservoirs.

Note: To make sure that the system performs optimally, the cartridge caps must be installed using the Intabio system—Cartridge Cap Installation Fixture and the Cap Sealing Tool.

Figure A-3 Components of the Intabio system—Cartridge Cap Installation Fixture and the Intabio ZT cartridge



Item	Description
1	Base and Aligner. Shipped with the system.
2	Cap Sealing Tool. Shipped with the system.
3	Caps. Shipped with the cartridge.
4	Intabio ZT cartridge
5	ESI tip
6	Optical window



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