Disposal of iCheck Test Kits

BioAnalyt

Reagent Vials

Reagents vials used with iCheck **Iron**, iCheck **Fluoro**, iCheck **Vitamin E**, iCheck **Carotene**, iCheck **Chroma** and **Chroma 3** contain organic chemicals, safely sealed to prevent exposure to the operator and environment.

These reagent vials must be disposed of carefully, following local regulations for hazardous materials. The disposal usually involves chemical incinerator. Collect used vials into a plastic container and hand over to a local chemical disposal company.

When reagents are used in field conditions and special container is not available, collect used vials back into original packaging and bring back to a central location where the vials can be appropriately disposed of. DO NOT DISPOSE OF THE REAGENT VIALS INTO COMMON WASTE!

If the reagent vial has been broken, avoid breathing in the chemicals, as they rapidly evaporate. Air the room well.

Reagent vials used with iCheck **Iodine** do not contain any hazardous chemicals and are disposed of with common waste.

Reagents	Reagents / sample	Chemicals	Warning
iCheck Fluoro **iCheck Carotene** **iCheck Vitamin E**	2.0 mL	n-Hexan and alcohols	
iCheck Iron	2.2 mL (with additive)	Bathophenantrolin in organic solvent, reducing and chelating agents	
iCheck Iodine	2.1 mL (with additive)	Starch, potassium iodide, phosphoric acid	-

Syringes and Needles

Syringes used for analysis of food samples, may be disposed with common waste. Syringes used with biological samples such as blood and breast milk should be disposed of together with hazardous waste.

Take extra care when disposing of the used needles to prevent injury: discard used needles into special container (an empty plastic water bottle may be used as alternative). Avoid recapping the needles.

Environmental footprint

The amount of organic chemicals needed for analysis of one sample with iCheck is **2 to 200 times LESS** than with traditional laboratory methods (see table below).

The chemicals are also safely sealed inside the glass vial preventing exposure to the operator and environment.

Analyte	Methods	Reagents/ sample
Iron	Qualitative spot-test	5 mL
Iron	Quantitative ICP-MS	10 mL
Iodine	Quantitative titration	20 mL
Vitamin A	Quantitative Spectrophotometer (sugar, premix)	15-30 mL
Vitamin A	Qualitative spot test	40 mL
Iron	Quantitative AAS	50 mL
Vitamin A	Qualitative test (oil)	130 mL
Vitamin A	Quantitative HPLC	100-300 mL
Vitamin A	Quantitative Spectrophotometer (oil)	450 mL