

# iCheck Iodine

## Product Information

iCheck Iodine is a portable photometer for the quantitative determination of iodine in salt.

### HOW DOES IT WORK?

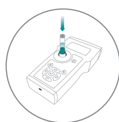
iCheck consists of 2 parts: a ready-to-use reagent vial and a device. The sample is injected into the reagent vial where a reaction with iodine takes place. The vial is inserted into the device that measures concentration of iodine in the vial.



1. Injection



2. Reaction



3. Measurement

### PRODUCT DETAILS



iCheck device

iCheck Iodine quantitatively measures potassium iodate specific color reaction between the salt and the reagents in the test vials, and displays the results in mg/L. iCheck devices come in a portable case with all necessary accessories.



Reagent vial

iCheck reagent vials contain a patented mixture of reagents. They come in a box (**Test Kit**) sufficient for 100 analyses. The reagent's shelf-life is 12 months at room temperature.




### BENEFITS

- **Speed:** result in less than 10 minutes
- **Economy:** cost is only 10% of conventional lab. methods
- **Easy implementation:** only 1 day training required
- **Scalability:** no set up calibration required

### OUR SERVICES

#### Free-of-charge customer tech support:

- Online demos and trainings (i.e. Zoom)
- Instant support via WhatsApp: +49 3328 35150034 
- Support with analysis, calculations, interpretation of standards, sampling protocols, technical consultations about the micronutrients

#### On-site Training

#### Feasibility testing for new matrices

iChecks are manufactured in Germany, used in over 80 countries and validated against standard laboratory methods. Learn more at [www.bioanalyt.com/products](http://www.bioanalyt.com/products)

### measure for life

For orders, technical assistance or any other inquiries contact BioAnalyt at: [contact@bioanalyt.com](mailto:contact@bioanalyt.com) • + (49) 33 28 35 15 000 • [www.bioanalyt.com](http://www.bioanalyt.com)

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## Technical Data

### Quality assurance

iCheck and iCheck Iodine reagent vials are produced according to quality management system (DIN EN ISO 9001:2015) certified by TÜV Nord in Germany.

TECHNICAL DATA	
Sample	
Analyte:	Iodine as potassium iodate
Sample:	Table salt
Sample preparation:	Dilution in distilled or bottled water
Sample volume per analysis:	1.0 mL (1000 µL)
Concentration range:	>3 ppm (mg/kg), samples must be diluted in water; minimum dilution factor is 1:3
Device	
Analytical method:	Photometric determination of iodine concentration using colorimetric reaction
Units displayed:	mg/L
Linear range:	1.0 - 13.0 mg/L
Calibration:	Factory set (standards included for control)
Time per analysis:	< 10 min
Environment:	20 – 30°C, no direct sunlight
Accuracy:	Maximum coefficient of variation is 8%; extended measurement uncertainty at 95% confidence at 25°C is 17%.
Method comparison:	Iodometric titration
User training:	1 day training
Use:	Laboratory and field
Data output:	Sample #, Batch #, Result, Date, Time (in transferred data)
Connectivity and data:	Results are stored in the device and transferred to a PC via USB
Power source:	NIMH rechargeable batteries included; AA 1.2 or 1.5V
Warranty:	2 years
Device weight:	0.45 kg
Device dimensions:	11 x 4 x 20 cm (W x H x L)
Test Kit	
Content:	100 reagent vials and 20 additive vials; 120 syringes - 1.0 mL; 120 needles - 0.8mm x 16mm
Chemical composition:	Starch, potassium iodide, phosphoric acid
Volume per reagent vial:	1.9 mL
Shelf life:	12 months at 20 –30°C, no direct sunlight, upright
Dimension of test kit:	26 x 14.5 x 16.5 cm
Disposal instructions:	Non-hazardous waste
Optional equipment:	50 mL falcons, weighing dishes, reference samples