

# iCheck Vitamin E

## Product Information

iCheck Vitamin E is a portable fluorometer for the quantitative determination of the vitamin E content in biological fluids within minutes.

### 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 vitamin E is extracted. The vial is inserted into the device that measures concentration of vitamin E in the vial.



1. Injection



2. Reaction



3. Measurement

### PRODUCT DETAILS



iCheck device

iCheck Vitamin E is a portable fluorometer. The device measures vitamin E quantitatively 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. Skype)
- Instant support via WhatsApp: 0049 162 583 77 30 
- 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 Vitamin E reagent vials are produced according to quality management system (DIN EN ISO 9001:2015) and certified by TÜV Nord in Germany.

#### TECHNICAL DATA

##### Sample

|                             |                              |
|-----------------------------|------------------------------|
| Analyte:                    | Alpha tocopherol             |
| Sample type:                | Cattle serum and whole blood |
| Sample preparation:         | Not necessary                |
| Sample volume per analysis: | 0.5 mL (500 µL)              |

##### Device

|                        |  |
|------------------------|--|
| Analytical method:     | Autofluorescence of alpha tocopherol                             |
| Units displayed:       | mg/L   |
| Linear range:          | 1.0–25.0 mg/L  |
| Calibration:           | Factory set  |
| Time per analysis:     | < 10 min   |
| Environment:           | 18–30°C, no direct sunlight                                      |
| 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; 100 syringes - 1.0 mL; 100 needles - 0.8mm x 16mm. |
| Chemical composition:    | n-Hexan and alcohols  |
| Volume per reagent vial: | 2.0 mL  |
| Shelf life:              | 12 months at 15–30°C, no direct sunlight, upright                     |
| Dimension of test kit:   | 26 x 14.5 x 16.5 cm   |
| Disposal instructions:   | Hazardous waste   |