

Point of care determination of AChE Activity

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ChE check mobile

**Innovative test system to determine acetyl
cholinesterase activity directly on patients**

What distinguishes the test system?

- ✓ **Point of care** Patient-orientated rapid test
- ✓ **Unique** AChE determination from whole blood
- ✓ **Simple** 1 drop of blood is sufficient
- ✓ **Fast** Result in 4 minutes

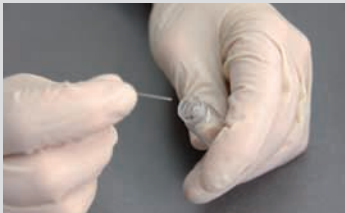
The test system ChE check mobile was developed in close cooperation with the Pharmacology and Toxicology Institute of the German Armed Forces in Munich. The device measures acetyl- and butyrylcholinesterase activity.



Test Performance



1. Determine the background value of the cuvette



2. Take blood sample and place capillary in cuvette.



3. Menu guides user through haemoglobin measurement.



4. Exchange white cap with red cap containing AChE substrate.



5. Dissolve substrate by shaking the cuvette.



6. Test results are available within 4 minutes..

ChE check mobile Innovative – simple – fast

Reasons for a rapid AChE test

Acetylcholine provides synaptic transmission between nerve and muscle, and is an important neurotransmitter for many **cognitive processes in the central nervous system**. The enzyme acetyl cholinesterase (AChE) is, thus, the enzyme responsible for significant regeneration of the acetylcholine receptor. In contrast to cholinesterase, erythrocyte-bound AChE correlates with AChE in the neurons. It can, therefore, be used as a **surrogate parameter for synaptic AChE**.

A number of chemical compounds and drugs inhibit AChE activity. In the case of pesticides or nerve agents, this can cause poisoning. AChE inhibitory substances are also used in the **treatment of Alzheimer's disease**.

The activity measurement of erythrocyte-bound AChE currently provides already valuable **help in the diagnosis and treatment of poisoning**.



ISO 9001 | 13485
Certified



Item Number:

CH1104 ChE check mobile Starter Kit AChE
CH1105 ChE check mobile Starter Kit BChE
CH1106 ChE check mobile Test Kit AChE
CH1107 ChE check mobile Test Kit BChE

Securetec Detektions-Systeme AG

Lilienthalstrasse 7

85579 Neubiberg

Germany

T +49 89 203080-1651

F +49 89 203080-1652

info@securetec.net

www.securetec.net

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