

Fast + Simple
Focused on Veterinary Diagnostics



Specialists in Veterinary
Laboratory Supplies

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ACT-VETube^{ad us. vet.}

Activated Clotting Time (ACT) – standardised in-clinic coagulation diagnostics

Standardised screening test for determination of secondary hemostatic disorders in the dog, cat and horse

Emergency diagnostics

- bleedings of unknown origin
- suspicion of rodenticide and other intoxication
- suspicion of DIC (disseminated intravascular coagulation) during shock, trauma, tumor etc.

Therapeutic monitoring

during vitamin K or heparin medication etc.

Pre-surgery screening test

Haemophilia A & B screening test
in "bleeding races", e.g. Rhodesian Ridgeback or Havanese



- Simple standardised test procedure
- Fast test interpretation after few minutes
- Reliable clinical diagnostics
- Storage at room temperature (15-25 °C)
- Long shelf life
- Compact test box with 10 tests

ACT-*VET*Tube ad us. vet.

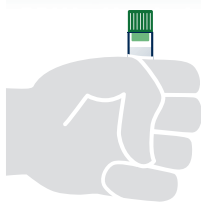
Hemostasis is a complex physiological reaction to all kinds of bleedings. Hemostatic disorders base on defects or causes of the primary (cellular hemostasis via thrombocytes) and secondary (plasmatic clotting factors) hemostasis.

The Activated Clotting Time (ACT) is, like the activated Partial Thromboplastin Time (aPTT), an important coagulation marker for screening of the individual status of hemostasis, especially of the intrinsic and common path of the coagulation cascade.

With ACT, suspicion of secondary hemostasis disorder can be confirmed quickly and easily on-site. Prolonged ACT occurs in the dog and cat during internal bleedings in body cavities, by genetically inherited factor deficiencies like hemophilia A and B as well as by acquired causes like rodenticide intoxication, liver diseases, administration of drugs like coumarin or heparin and lack of vitamin K. In the horse, prolonged ACT occurs especially in hemostatic disorders connected with DIC (disseminated intravascular coagulation: shock, colic, laminitis, thromboses etc.).

Being fast, simple and reliable, **ACT-*VET*Tube** enables the veterinarian to measure the time (in seconds) needed by a blood sample mixed with diatomaceous earth at 37 °C to show first signs of blood clots.

Test procedure



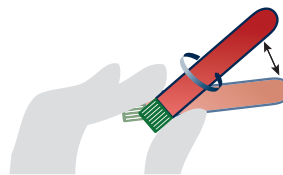
1. Warm up the **ACT-*VET*Tube** tube to ca. 37 °C



2. Add 2.0 ml native blood from V. jugularis into the hand-hot **ACT-*VET*Tube** tube



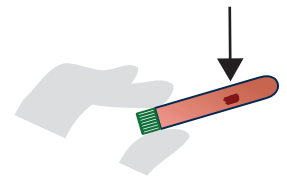
Start stop-watch immediately



3. Close **ACT-*VET*Tube** tube and mix by careful swinging for one time






4. Swing the tube from horizontal to vertical every 10 seconds and watch for coagulation



5. When first blood clots are visible, stop the stop-watch and read coagulation time (ACT)

Test interpretation

1. Standard ACT

-  Dog: **60-110 seconds**
-  Cat: **50-75 seconds**
-  Horse: **130-200 seconds**

2. Prolonged ACT

- DIC (Disseminated Intravascular Coagulation: Infections, shock, colic, laminitis, etc.)
- advanced rodenticide or fungal poisoning, snake bite
- severe thrombocytopenia (< 10,000 / μ l blood)
- diverse thrombocytopathies
- inhibitors preventing clot formation (heparin, coumarin, uraemia, a. s. o.)
- severe factor deficiencies (sensitivity < than aPTT!)
intrinsic or common (XII, XI, IX, VIII, X, V, II, I)

3. Therapy monitoring via ACT

- Heparin, marcumar or warfarin therapy (podotrochlosis, thrombophlebitis, DIC etc.)
- Vitamin K therapy (coumarin poisoning)

For evaluation of additional suspicion on malfunction of primary haemostasis, the use of **SURGICUTT® Vet K** or **H**, respectively, is recommended (determination of the Buccal Mucosal Bleeding Time = BMBT).



Distribution:

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