

For general laboratory use.
FOR *IN VITRO* USE ONLY.

ABTS tablets

Cat. No. 11 204 521 001 5 mg

Buffer for ABTS

Cat. No. 11 204 530 001 125 ml (1 × solution)

Version June 2004

Store at 2–8°C

Composition Each ABTS tablet contains 5 mg ABTS and 60 mg vehicle substances.

The buffer solution for ABTS consists of sodium perborate, citric acid and disodium hydrogen phosphate.

Storage and stability ABTS tablets are stable when stored dry and protected from light at 2–8°C until the expiration date printed on the label.

The buffer solution for ABTS is stable at 2–8°C (until the expiration date printed on the label) if contamination by microorganisms is strictly avoided. The solution of ABTS in this buffer is stable for 3 months at 2–8°C when stored protected from light.

Preparation of solutions Dissolve one ABTS tablet (5 mg) in 5 ml of the buffer solution for ABTS. This solution has a light-green color. In microtiter plates it appears to be colorless. $A_{405\text{ nm}}/1\text{ cm}$ should be <0.16 . Work clean! Heavy metal ions or traces of peroxidase will convert the color of the ABTS solution into dark green. Such solutions are unsuitable for the assay!

Application This solution is the ideal substrate solution for enzyme immunoassays with horse radish peroxidase as marker enzyme. Because of the high sensitivity of the reaction, autoreaders will often display “over” after some minutes.

ELISA Assay After the addition of the immunoreagent and washing steps, follow the procedure described in the table below:

Step	Action
1	Remove washing solution carefully.
2	Pipette to each well 100 μ l - 200 μ l ABTS solution. Note: Prewarm solution to 15–25°C.
3	For maximum sensitivity, incubate for 1 h at 22–37°C on a plate shaker at 250 rpm until the color development is sufficient for a photometric analysis (or shake at 500 rpm for 30 min). Extended incubation periods should be avoided, since after approx. 1 h the color of the dye tends to decrease slightly instead of expected further increase.
4	Measure at 405 nm against ABTS solution as a blank (reference wavelength approx. 492 nm). Note: The green color of the substrate ABTS can be easily detected by eye, for numeric values however a photometric measurement is required.

How to contact Roche Applied Science

www.roche-applied-science.com

to order, solve technical queries, find product information, or contact your local sales representative.

www.roche-applied-science.com/pack-insert/11204521001a.pdf

Please visit our new Online Technical Support Site under www.roche-applied-science.com/support

Related Products For a complete overview of related products, please visit and bookmark our Special Interest Sites at <http://www.roche-applied-science.com/support>

ABTS is a trademark of a member of the Roche group.



Roche Diagnostics GmbH
Roche Applied Science
Nonnenwald 2
82372 Penzberg
Germany