# TiterCHEK™

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#### DANGER / DANGER/ PELIGRO / PERIGO



Chromogenic Substrate: Danger. Causes serious eye irritation. May damage the unborn child. May cause cancer. Harmful to aquatic life with long lasting effects. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/ face protection. Wash thoroughly after handling. Avoid release to the environment. If exposed or concerned: Get medical advice/attention. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eve irritation persists: Get medical advice/attention. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations

Substrat Chromogène: Danger. Provoque une sévère irritation des yeux. Peut nuire au foetus. Peut provoquer le cancer. Nocif pour les organismes aquatiques, entraîne des effets néfastes à long terme. Se procurer les instructions avant utilisation. Ne pas manipuler avant d'avoir lu et compris toutes les précautions de sécurité. Porter des gants de protection/des vêtements de protection/un équipement de protection des yeux/du visage. Se laver soigneusement après manipulation. Éviter le rejet dans l'environnement. En cas d'exposition prouvée ou suspectée : consulter un médecin. EN CAS DE CONTACT AVEC LES YEUX : rincer avec précaution à l'eau pendant plusieurs minutes. Enlever les lentilles de contact si la victime en porte et si elles peuvent être facilement enlevées. Continuer à rincer. Si l'irritation oculaire persiste : consulter un médecin. Garder sous clef. Éliminer le contenu /récipient conformément à la réglementation locale / régionale / nationale / internationale en vigueur.

**Sustrato Cromógeno:** Peligro. Provoca irritación ocular grave. Puede dañar al feto. Puede provocar cáncer. Nocivo para los organismos acuáticos, con efectos nocivos duraderos. Pedir instrucciones especiales antes del uso. No manipular la sustancia antes de haber leído y comprendido todas las instrucciones de seguridad. Llevar quantes / prendas / gafas / máscara de protección. Lavarse tras la manipulación. Evitar su liberación al medio ambiente. En caso de exposición manifiesta o presunta: consultar a un médico. EN CASO DE CONTACTO CON LOS OIOS: aclarar cuidadosamente con aqua durante varios minutos. Quitar las lentes de contacto, si lleva y resulta fácil. Seguir aclarando. Si persiste la irritación ocular: consultar a un médico. Guardar bajo llave. Eliminar el contenido / el recipiente de conformidad con las normativas locales / regionales / nacionales / internacionales.

Substrato Cromogênico: Perigo. Provoca irritação ocular grave. Pode afetar o nascituro. Pode causar câncer. Nocivo para os organismos aquáticos com efeitos duradouros. Pedir instruções específicas antes da utilização. Não manusear o produto antes de ler e perceber todas as precaucões de segurança. Usar luvas de proteção / vestuário de proteção / proteção ocular / proteção facial. Lavar completamente após o manuseio. Evitar a liberação para o ambiente. Em caso de exposição ou suspeita de exposição: consultar um médico. SE ENTRAR EM CONTATO COM OS OLHOS: enxaguar cuidadosamente com água durante vários minutos. Se usar lentes de contato, retire-as, se isso for possível. Continuar a enxaguar. Se l'irritazione degli occhi persiste, consultare un medico. Armazenar em local fechado a chave. Eliminar o conteúdo / recipiente de acordo com os regulamentos locais / regionais / nacionais / internacionais.

# **CANINE DISTEMPER-PARVOVIRUS ANTIBODY TEST KIT**

**ENGLISH** 

TiterCHEK™ CDV-CPV is an ELISA based assay used for the determination of antibody levels to Canine Distemper Virus (CDV) and Canine Parvovirus (CPV) in canine serum or plasma samples

#### GENERAL INFORMATION AND INTENDED USES

Color coded plastic wells are coated with either purified canine distemper virus (CDV) antigen or canine parvovirus (CPV) antigen. Serum or plasma samples are incubated in the coated wells followed by incubation with polyclonal rabbit anti-dog IgG conjugated to horseradish peroxidase (HRP). Antibodies to CDV and/or CPV, if present in the canine samples, are bound to the specific antigen coated wells and, in turn, bind the anti-dog IgG conjugate. The free, unbound enzyme-linked conjugate is washed away and a chromogenic substrate is added to each well. A chromogenic color change (from clear to blue) occurs in the presence of the peroxidase enzyme. The blue color indicates a positive result. For CDV, a positive test result is intended to indicate a serum neutralization titer of 1:16 or greater, and a negative test result should indicate a serum neutralization titer of less than 1:16. For CPV, a positive test result is intended to indicate a hemagglutination inhibition (HI) titer of 1:80 or greater, and a negative test result should indicate a hemagglutination inhibition titer of less than 1:80.

TiterCHEK CDV-CPV is highly specific, sensitive and simple to perform. Test results can be obtained in 15 minutes. The diagnostic kit contains a positive control and a negative control which must be included each time the assay is performed. Visual comparison of the color of samples to the positive control for each assay will allow accurate detection of the presence of CDV and/or CPV antibody in the sample

#### KIT COMPOSITION AND CONSERVATION

Contains materials sufficient to test 5 – 14 samples.

	ITEM	REAGENT NATURE	VOLUME	RECONSTITUTION AND CONSERVATION
	1	CDV Antigen Coated Wells	2x8 wells	Ready to use. CDV wells have a white rim.
	2	CPV Antigen Coated Wells	2x8 wells	Ready to use. CPV wells have a red rim.
_	CONTROL +	Positive Control; preserved with Phenol and Gentamicin sulfate	1:0 mL	Ready to use. (Red cap)
	В	Negative Control/Sample Diluent; preserved with Phenol and Gentamicin sulfate	3.0 mL	Ready to use. (Gray cap)
	C	HRP-Conjugate; preserved with Phenol and Gentamicin sulfate	2.0 mL	Ready to use. (Blue cap)
	D	Chromogenic Substrate	3.0 mL	Ready to use. (Green cap)
	E	10X Wash Concentrate	100 mL	Dilute to 1X in deionized or distilled water. (Orange cap)
		Disposable Sample Loops	48	Ready to use
		Well Holder	1	Ready to use

Note: All reagents provided in the kit should be stored at 2-7 °C. Reagents should not be frozen.

#### **EQUIPMENT AND MATERIALS REQUIRED BUT NOT PROVIDED**

- a) Deionized or distilled waterb) 2 Squirt bottles

#### WARNINGS TO THE USERS OF REAGENTS AND ANTIGEN COATED MICROPLATES

- Handle all reagents and samples as biohazardous material. It is recommended to dispose reagents and contaminated material according to the applicable regulations.
- Wear suitable protective clothing.
- Irritating to eyes and skin. Keep all reagents away from eyes and skin. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- Take care not to contaminate any test reagents with samples or bacterial agents. The best results are achieved by following the protocols described below, using good, safe
- laboratory techniques.
- Never add water to the antigen coated microplates, conjugate, controls, or substrate.
- Do not use this kit or any of its contents after the expiration date. Do not intermix components from different serial numbers.
- Use a separate sample loop for each sample
- Do not expose kit to direct sunlight NEVER PIPETTE BY MOUTH. Harmful if swallowed.

### NOTE: Allow all components to come to 21 - 25 °C before starting.

## SAMPLE COLLECTION AND STORAGE

- Follow proper sample collection procedures.
- Harvest serum and store properly (up to seven days at 2 7 °C). For prolonged storage, samples should be kept frozen (-20 °C or colder).
- Test only good quality serum or plasma. Severely hemolyzed or lipemic serum may produce background color. When in doubt, obtain a better quality sample.

## PREPARATION OF WASH SOLUTION

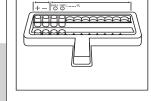
Dilute wash concentrate 10-fold with distilled or deionized water (1 part concentrate to 9 parts deionized or distilled water) in a squirt bottle. Mix gently by inversion. Diluted wash solution may be stored at

## TEST PROCECURE

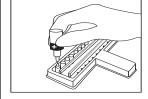
STEP NOTES

## SET UP AND SAMPLE INCUBATION

- Remove and place CDV wells (white rim) in top half of holder; one well for the Positive Control, one well for the Negative Control, and one well for each sample to be tested.
- Place CPV wells (red rim) in bottom half of holder; one well for the Positive Control one well for the Negative Control and one well for each sample to be tested. Leave the required number of wells attached to each other



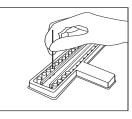
Add 1 drop of Positive Control (Red Cap) into the first CDV well and first CPV well.



Add 1 drop of Negative Control/Sample Diluent (Bottle B - Gray Cap) to the second CDV well and to each CDV test 4) sample well. Add 1 drop of Negative Control/Sample Diluent to the second CPV well and to each CPV test sample well.



Using a separate sample loop for each sample, add 1 loopful (1 µL) of each sample to each of the CDV and CPV 5) sample wells. Mix sample in diluent thoroughly by twisting the handle of the loop between the thumb and forefinger. Be careful not to splash from well to well

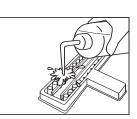


Incubate for 5 minutes at 21 - 25 °C.

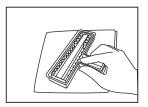
NOTE: If several samples are run simultaneously, only one set of CDV and CPV controls 7)

## **BLOT AND WASH PROCEDURE**

Discard the fluid from all wells into an appropriate waste container. Wash wells **once** by vigorously filling the wells to overflowing with diluted wash solution

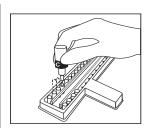


Discard excess fluid into an appropriate waste container. Invert holder and blot firmly onto a paper towel to remove remaining liquid.



#### ADDITION OF CONJUGATE

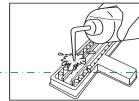
Add 1 drop of Conjugate (Bottle C - Blue 10) (an) into each well. Gently tap the holder for 10 - 15 seconds.



Incubate for 5 minutes at 21-25 °C.

#### BLOT AND WASH PROCEDURE

Discard the fluid from all wells into an appropriate waste container. Wash 12) by vigorously filling the wells to overflowing with diluted wash solution.

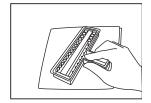


Discard the fluid from the wells into an appropriate waste container and blot after

Repeat the wash procedure (steps 12 and 13) three (3) times.

Wash two more times by vigorously filling the wells to overflowing with distilled or deionized water to remove bubbles.

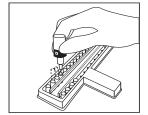
Discard excess fluid into an appropriate waste container. Invert holder and blot 16) firmly onto a paper towel to remove residual liquid



Washing is the most important step. Wells cannot be overwashed. Underwashing 17) will result in color development in the negative control and negative sample wells.

#### DEVELOP

Place 2 drops of Chromogenic Substrate (Bottle D - Green Cap) into each well. Mix by gently tapping the holder several times.



19) Incubate 5 minutes

After incubating, gently tap holder for 5 seconds and read results immediately. See 20) Interpretation of Results section.

**NOTE:** Prolonged incubation for more than 5 minutes in step 19 may result in non-specific color development. If no color is seen after 5 minutes, the sample is negative.

## INTERPRETATION OF RESULTS

Compare each CDV sample well with the CDV positive and negative control wells. Compare each CPV sample well with the CPV positive and negative control wells. Development of a blue color in the sample well that is of equal or greater intensity than the color of the

Positive Control well is considered to be positive (CDV SN titer  $\geq 1:16$  or CPV HI titer  $\geq 1:80$ ). No blue color in the sample well or color that is of less intensity than the color of the Positive Control Well is

considered to be negative (CDV SN titer < 1:16 or CPV HI titer < 1:80).

For the test to be valid, the fluid in the positive control well must be distinctly blue, while that in the negative control well must show no color change from initial substrate color.

Results should be interpreted immediately after the 5 minute incubation period in Step 19.

Wells can be detached and compared alongside the positive control well using a white background for easier visual inspection

- Washing is a critical step. Wells cannot be overwashed. Underwashing will result in color development in the negative control and negative sample wells.
- Serum or plasma must be used as a sample.
- Hemolyzed and lipemic serum samples may be used; however, severely hemolyzed and lipemic samples may produce background color. When in doubt, obtain a better quality sample.

  Always compare results to the positive control. The kit negative control is used to verify good washing
- technique. It should not be used to differentiate positive from negative results

## SYMBOL DESCRIPTIONS

Authorized Representative in the European Community Use by Date (expiration date) LOT Batch Code Consult Instructions for Use IVD SN Serial Number In Vitro Diagnostics Temperature Limitations (storage Manufacturer

## zoetis

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