

**ASHKAN CHLOR-EX BLUE** is a concentrated liquid stabilizer for the administration of live vaccines through drinking water for Poultry. It neutralizes chlorine, present in drinking water, which may inactivate live vaccines, and includes buffers to optimize pH and conditions hard water.

**ASHKAN CHLOR-EX BLUE** works rapidly and is safer for live vaccines than tablets and milk products which dissolve slowly and may cause water line bio-films. It does not contain animal by-products and is easy-to-use.

#### ADVANTAGES

- Easy-to-use, as it is a liquid
- Improved solubility to disperse rapidly
- Acts immediately to reduce the harmful effects of oxidizing sanitizers (e.g. chlorine) in poultry drinking water
- Buffers water to a more optimal pH range 6.0-6.5 units for viral antigen survival
- Blue dye provides visual assurance that the stabilizer has been added and is properly mixed, as well as marking the progress of the treated water and birds
- Will not clog drinkers
- Does not produce bio-films
- Optimizes vaccine activity
- Neutralizing agents reduce the negative effects of hard water
- Ingredients used are all human food approved for maximum safety to Birds and Humans
- Acts as a heavy metal binder

#### CONTENTS

Sodium Thiosulphate, Disodium Salt, Food Colour FD&C Blue E133, Stabilizers for Conditioning Water pH, Metal Ion Sequestrants and Buffering Agents.

#### INDICATIONS AND ADMINISTRATION

SHAKE WELL BEFORE USE. FOR MEASURING: Remove the cap from the small measuring chamber. Squeeze the large chamber until the required quantity of **Chlor-Ex Blue** is measured and dispense. Mix 50ml **Chlor-Ex Blue** per 100L clean cool drinking water. (0.5ml **Chlor-Ex Blue** per 1L water neutralizes 5ppm Chlorine.)

#### PRECAUTIONS

##### NOT FOR HUMAN CONSUMPTION.

**Keep out of reach of children.** Not for use as eye drops, vaccine diluent or injection. If in doubt, discontinue use and seek veterinary advice. **For avian use only.**

**DISPOSAL INSTRUCTIONS:** Clean thoroughly and dispose as per local regulations.

#### TESTING:

Three samples were tested to measure the performance of **Chlor-Ex Blue**. The samples were made up using filtered, sterilized tap water which was pH adjusted to 7 using 1M HCl. The samples were made up as follows:

1. Sterile tap water.
2. Sterile tap water with 5ppm Free Chlorine.
3. Sterile tap water with 5ppm Free Chlorine treated with **Chlor-Ex Blue**.

All samples were inoculated with equal doses of live Infectious Bronchitis viral vaccine with a titre of  $>10^6$  EID<sub>50</sub>/ml and left to stand for 30 minutes before sampling.

An hour after the first sampling was performed, Sample 3 was sampled again to determine if the buffering effect of **Chlor-Ex Blue** had any effect on the survival rate of the viral particles. The sample was numbered as 4 (3).

#### The test results:

Sample number	Viral titre
1	$>10^6$
2	$10^4$
3	$>10^6$
4	$>10^6$

# CHLOR-EX BLUE



#### STORAGE:

Store in a cool, dark and dry place, out of direct sunlight. When using cap to measure, wash cap out thoroughly before replacing onto the container.

**DISPOSAL INSTRUCTIONS:** Clean thoroughly and dispose as per local regulations.

#### SHAKE WELL BEFORE USE

#### PACK SIZES:

100ml, 1L and 5L

#### SHELF LIFE:

36 months from date of manufacture

#### REGISTRATION HOLDER AND MANUFACTURER:

**Ashkan Consulting (Pty) Ltd.**

Company Registration No.: 2006/020486/07

Office: +27 (0) 11 466 8764 • E-Mail: [info@ashkan.co.za](mailto:info@ashkan.co.za) • For more information visit: [www.ashkan.co.za](http://www.ashkan.co.za)

Postnet Suite 3N • Private Bag X87 • Bryanston • Johannesburg • Gauteng • South Africa • 2021

**Ashkan Animal Health (UK) Ltd.**

Company Registration No.: 08304719 (England and Wales)

Email: [eddy@ashkangroup.co.uk](mailto:eddy@ashkangroup.co.uk) • Cell: +44 (0) 783 499 7227 (UK)

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