

BETTER TECHNOLOGY. BETTER QUALITY. BETTER VALUE.

©2022 Nextteq International LLC All rights reserved.

This book is fully protected by copyright and no part of it may be reproduced in any form, by photocopy, microfilm, or any other means, without prior written permission of Nexttee International LLC.

May 2022

Nextteq VeriFit® Qualitative Fit Test Kit Bitrex® Solution Manual P/N NX90445

The VeriFit® Qualitative Fit Test is proudly manufactured in the United States of America.

Images and drawings used in this manual are for explanatory purposes only and may not be identical with the actual device in their appearance, size, color, or positions.

Nextteq is a registered trademark of Nextteq International LLC.

All other brand names and trademarks mentioned in this
document are the properties of their respective holders.

Nextteq International LLC Website http://www.nextteq.com 8406 Benjamin Rd Ste J, Tampa, FL 33634 Tel: 813-249-5888

Toll Free: 877-312-2333 Fax: 813-249-0188

Toll Free Fax: 877-312-2444 Email: info@nextteq.com

Printed in the United States of America



INSTRUCTION MANUAL

Nextteq® VeriFit®
Qualitative Fit Test Kit
Bitrex® Solution

Testin Respirator Fit





BETTER TECHNOLOGY. BETTER QUALITY.
BETTER VALUE.

We Meet OSHA Requirements for Respiratory Fit Testing



VeriFit® Qualitative Fit Test Kit

The Nextteq *VeriFit** Qualitative Fit Test System:

- Follows the OSHA Fit Testing Requirements
- Always ready to use
- One-time use pipettes
- Pre-measured 2.5cc solution
- Requires no mixing or additional equipment
- Simple pipette design gives you complete control
- Simply cut the end and re-cap if not ready
- Averages 3-5 tests per pipette
- No broken glass pieces
- Pipettes are 100% recyclable use and recycle!



VeriFit® Qualitative Fit Test Kit P/N NX90450



Replacement Pipettes (6 pk ea.): P/N NX90451 Bitrex Sensitivity Solution P/N NX90452 Bitrex Fit Test Solution





LIMITATION OF DAMAGES

THE PARTIES HERETO AGREE THAT BUYER'S SOLE AND EXCLUSIVE DAMAGES FOR SELLER'S BREACH SHALL BE LIMITED TO THE PRICE OF THE GOODS SOLD AND THAT ALL OTHER DAMAGES, INCLUDING BUT NOT LIMITED TO CONSEQUENTIAL, INCIDENTAL, EXEMPLARY, PUNITIVE AND STATUTORY DAMAGES ARE EXCLUDED. THE PARTIES FURTHER AGREE THAT THIS LIMITATION OF DAMAGES PROVISION IS INDEPENDENT OF THE LIMITATION OF REMEDIES PROVISION AND WILL BE ENFORCEABLE EVEN IF A REMEDY FAILS ITS ESSENTIAL PURPOSE.

LIMITATION OF REMEDIES

THE PARTIES HERETO AGREE THAT BUYER'S SOLE AND EXCLUSIVE REMEDY AGAINST THE SELLER SHALL BE, AT SELLER'S OPTION, (1) REPAIR OF THE DEFECTIVE GOODS (2) REPLACEMENT OF THE DEFECTIVE GOODS OR (3) REPAYMENT OF THE PURCHASE PRICE OF THE DEFECTIVE GOODS. IF SELLER IS UNABLE TO PROVIDE ANY SELECTED REMEDY, SELLER MAY ELECT TO PROVIDE BUYER WITH ANY REMAINING EXCLUSIVE REMEDY UNTIL ALL EXCLUSIVE REMEDIES HAVE BEEN EXHAUSTED. THE NUMBER OF REMEDIES PROVIDED AND THE ORDER IN WHICH THE REMEDIES ARE PROVIDED SHALL BE DETERMINED SOLELY BY THE SELLER. THIS EXCLUSIVE REMEDY IS ONLY AVAILABLE TO THE BUYER IF BUYER RETURNS THE DEFECTIVE GOODS TO SELLER FOR INSPECTION AND SELLER'S INSPECTION DETERMINES A DEFECT EXISTS AND THAT THE DEFECT WAS NOT CAUSED IN WHOLE OR IN PART BY THE BUYER OR BY ANYONE'S USE, OPERATION, STORAGE, MAINTENANCE, REPAIR, HANDLING OR TRANSPORTATION OF THE DEFECTIVE GOODS WHICH WAS INCONSISTENT WITH SELLER'S OR THE MANUFACTURER'S SPECIFICATIONS, INSTRUCTIONS OR WARNINGS.



IX. DISCLAIMER OF WARRANTIES

THE INFORMATION AND RECOMMENDATIONS CONTAINED IN THIS DOCUMENT ARE PROVIDED FREE WITHOUT CHARGE SOLELY FOR QUALIFIED INDUSTRIAL OR COMMERCIAL USERS AT THEIR DISCRETION AND RISK. READ, UNDERSTAND AND COMPLY WITH ALL INSTRUCTIONS, WARNINGS, LABELS AND MANUALS BEFORE USING AND WHILE USING NEXTTEQ'S PRODUCTS. ALL STATEMENTS, INFORMATION AND RECOMMENDATIONS CONTAINED IN THIS DOCUMENT ARE BASED UPON DATA AND OTHER INFORMATION THAT NEXTTEQ BELIEVES TO BE CORRECT AND COMPLETE AS OF THE DATE ISSUED, BUT THE ACCURACY AND COMPLETENESS THEREOF IS NOT GUARANTEED AND NO WARRANTY OF ANY KIND IS MADE WITH RESPECT TO THE INFORMATION OR RECOMMENDATIONS CONTAINED IN THIS DOCUMENT. THIS INFORMATION IS NOT INTENDED AS A LICENSE TO OPERATE UNDER OR A RECOMMENDATION TO PRACTICE OR TO INFRINGE UPON ANY PATENT, TRADEMARK TRADE SECRET, OR PROPRIETARY INFORMATION OF NEXTTEQ OR OTHERS COVERING ANY PROCESS, COMPOSITION, MATTER OR USE. THE USER IS RESPONSIBLE FOR DETERMINING WHETHER THE PRODUCT OR COMPONENT IS FIT FOR A PARTICULAR PURPOSE AND SUITABLE FOR THE USER'S METHOD OF USE OR APPLICATION. THE TEST SUBJECTS' SENSITIVITY TO DENATONIUM BENZOATE VARIES. THE CHEMICAL CONCENTRATION MAY VARY SLIGHTLY FROM LOT TO LOT. THE SKILL AND TRAINING OF TEST ADMINISTRATORS VARY, GIVEN THE VARIETY OF FACTORS THAT CAN AFFECT THE USE AND APPLICATION OF A PRODUCT OR COMPONENT, SOME OF WHICH ARE UNIQUELY WITHIN THE USER'S KNOWLEDGE OR CONTROL, IT IS ESSENTIAL THAT THE USER EVALUATE THE PRODUCT OR COMPONENT TO DÉTERMINE WHETHER THE PRODUCT OR COMPONENT IS FIT FOR A PARTICULAR PURPOSE AND ADDITIONALLY SUITABLE FOR USER'S METHOD OF USE OR APPLICATION AND SUITABLE FOR THE TEST SUBJECT. NEXTTEQ'S WARRANTY IS SET FORTH IN NEXTTEQ'S TERMS AND CONDITIONS OF SALE MADE BY NEXTTEQ AND ACCEPTED BY BUYER IN LIEU OF ALL OTHER WARRANTIES EXPRESS OR IMPLIED INCLUDING BUT NOT LIMITED TO ANY OTHER AFFIRMATION OF FACT, RECOMMENDATION OR PROMISE THAT RELATES TO THE GOODS, THIS DOCUMENT OR ANY IMPLIED WARRANTY OF FITNESS FOR PARTICULAR PÚRPOSE OR MERCHANTABILITY, WHICH ARE EXPRESSLY DISCLAIMED. THIS PRODUCT OR COMPONENT IS ONLY FOR SALE, FOR USE BY, AND STORAGE BY A TRAINED, QUALIFIED, TECHNICALLY COMPETENT, PROFESSIONAL, COMMERCIAL, INDUSTRIAL, MILITARY OR GOVERNMENT USER. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION SET FORTH IN NEXTTEQ'S TERMS AND CONDITIONS OF SALE. NEXTTEQ SHALL NOT BE LIABLE FOR DIRECT OR INDIRECT CONSEQUENTIAL, INCIDENTAL, STATUTORY, PUNITIVE OR DAMAGES OR LOSS RESULTING FROM THE PROPER OR IMPROPER USE OF EITHER THE PRODUCT OR COMPONENT SOLD BY NEXTTEQ OR ANY INFORMATION OR RECOMMENDATION CONTAINED IN THIS DOCUMENT. THIS LIMITATION OF DAMAGES IS INDEPENDENT OF ANY LIMITATION OF REMEDIES PROVISION AND WILL BE ENFORCEABLE EVEN IF A REMEDY FAILS ITS ESSENTIAL PURPOSE. IF THE USER IS UNSURE ABOUT THE PROPER USE OF THE VERIFIT QUALITATIVE FIT TESTING KIT, ANY INSTRUCTIONS WARNINGS, LABELS, SPECIFICATIONS, TEST PROTOCOL OR THE VERIFIT QUALITATIVE FIT TEST MANUAL, THE USER SHOULD CALL NEXTTEQ FOR ASSISTANCE PRIOR TO USING THE PRODUCT. NEXTTEQ CAN BE CONTACTED AT ONE OF THE FOLLOWING TELEPHONE NUMBERS: TOLL FREE 877-312-2333 OR LOCAL NUMBER 813-249-5888.

TABLE OF CONTENTS

NEVITED VEDICIT® OUALITATIVE CIT TECT VIT

١.	NEXTIEU VERIFII - QUALITATIVE FIT TEST KIT	4
II.	KIT CONTENTS	4
III.	SPECIFICATIONS FOR BITREX® PIPETTES	5
IV.	TESTING PROCEDURES	6
	A. PREPARING THE NEBULIZERS	6
	B. PROPER FITTING OF THE TEST HOOD	
	C. PERFORM THE SENSITIVITY TEST-STAGE ONE	
	D. PERFORM THE FIT TEST-STAGE TWO	9
V.	KIT MAINTENANCE	10
	A. NEBULIZER CLEANING	10
	B. HOOD CLEANING	11
VI.	REPLACEMENT PARTS AND REFILLS	11
VII.	NEXTTEQ VERIFIT® N95 RESPIRATORS NIOSH-CERTIFIED	12
VIII.	NEXTTEQ VERIFIT® IRRITANT SMOKE GENERATORS FOR RESPIRATOR FIT TESTING	13
IY	DISCI AIMER OF WARRANTIES	1/



I. NEXTTEO VERIFIT® QUALITATIVE FIT TEST KIT

Our VeriFit® Qualitative Fit Test Kit is designed to meet current OSHA requirements for fit testing N95 respirators as well as other tight-fitting face respirators.



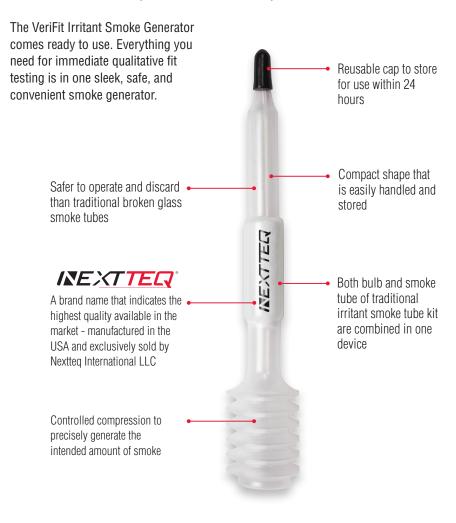
II. KIT CONTENTS

- · Bitrex Sensitivity Solution (6 pack)
- Bitrex Fit Test Solution (6 pack)
- Sensitivity Test Nebulizer
- · Fit Test Nebulizer
- · Test Hood
- Scissors
- · Instruction Manual

VIII. NEXTTEQ VERIFIT® IRRITANT SMOKE GENERATORS FOR RESPIRATOR FIT TESTING

The VeriFit Irritant Smoke Generator is manufactured by Nextteq International, LLC in the U.S.A. The patented plastic design integrates all traditional fit testing kit components into one convenient device. The small bellows size provides the optimum amount of smoke for fit testing, yet minimizes the risk of overexposure.

Unlike other test methods, there is no need for chamber construction, nebulizers, electric pumps, mixing jars, batteries, special test masks, mask probes, or testing hoods. There are also no parts to calibrate, warm up, sterilize, or clean.





VII. NEXTTEO VERIFIT® N95 RESPIRATORS NIOSH-CERTIFIED

Key Features:

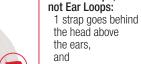
- NIOSH approved N95 rating.
- · CE approved FFP1 class certified.
- · Embedded nose clip for snug soft fit.
- Unique adjuster beads on head straps for optimum fit and comfort.
- Dotted pattern edges for soft feel against face.
- Pocket-shaped flat design for easy storage.
- · Superior micro-fine filter media technology.
- Multi-layers of pre-filter, fine filter and skin comfort layer.
- Designed with USA market specific requirements for occupational use only.



Stamp on Respirator:

- 1. Identifies the Manufacturer
- 2. Stamped "NIOSH N95"
- 3. Stamped with an identifier number that begins with "TC"





and
1 strap goes behind
the head around
the neck.

2 Head Straps,

P/N NX-N95CSR-B20 Convex Style (Left) P/N NX-N95FFAB-B50 Flat Fold Style (Right)

III. SPECIFICATIONS FOR BITREX® PIPETTES

Volume: 0.085 oz

(2.5 mL) or 0.085 oz / 2.5 mL

Dimensions:

Total Capacity: 7 mL

Overall Length: 5.5 in (139.8 mm)

Bulb:

Length: 1.625 in (41 mm)

Diameter: 0.5 in (13 mm)

Draw: 1.08 oz (32 mL)

Stem:

Length: 3.875 in (98.6 mm)

Diameter: 0.31 in (7.9 mm)

Active Ingredient: Bitrex (Denatonium Benzoate)

Number of tests per pipette: 3-5

Operating Temperature: 32°F to 104°F / 0°C to 40°C

Operating Relative Humidity: 10% to 95% RH

Storage Temperature: 41°F to 77°F / 5°C to 25° C

Storage Conditions: Store in a secure, dry, cool place

away from direct light

Warranty: 90 days



IV. TESTING PROCEDURES

The test administrator should read and understand the testing procedures before proceeding.



It is strongly recommended that the test administrator wear a particulate respirator to prevent prolonged exposure to the Bitrex solution.

To begin, explain the steps and expected results to the test subject.

In addition to these instructions, training videos are available at nexttegnews.com.

A. PREPARING THE NEBULIZERS

There are two nebulizers in the VeriFit® Qualitative Fit Test Kit. They are labeled for the type of solution to be used at each step of the fit test. (See section V.A. (pg 12) for diagram of nebulizer.)

Remove one each of the sensitivity (red band) and fit test (blue band) solution pipettes from the kit.





- 1. Snip the sealed tip for the pipettes with scissors provided.
- 2. Remove the nebulizer stopper (C) from the vapor tube (A). Refer to diagram Section V.A. on Pq.12.
- 3. Holding the nebulizer in an upright position, add the entire contents of the solution through vapor tube (A).



Do not fill above the O-ring (E). Overfilling will cause the nebulizer to leak.

- 4. Remove the nebulizer stopper (C) to attain maximum aerosol delivery. Hold the nebulizer in an upright position until the test is completed.
- 5. After use, replace the nebulizer stoppers (B) and (C).

7. After parts are thoroughly dried, reassemble the bulb (I) to the nebulizer base (H). Carefully replace jet (G) to original position in base with closed part of jet toward throat. Reassemble top portion of the nebulizer to the nebulizer base.

B. HOOD CLEANING

Wipe the inside of the hood with a damp cloth or paper towel to remove any residue from the solutions. The exterior can also be spot cleaned with a damp cloth or paper towel.

VI. REPLACEMENT PARTS AND REFILLS

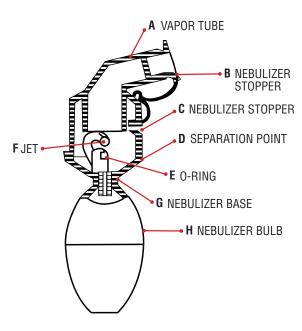
Description	Part Number
Test hood	NX90442
Nebulizer (includes labels)	NX90449
Bitrex Sensitivity Solution	NX90451
Bitrex Test Fit Solution	NX90452



V. KIT MAINTENANCE

A. NEBULIZER CLEANING

Model 45



- 1. Remove stoppers (B) and (C) from nebulizer ports.
 - Separate nebulizer base (G) and vapor tube (A) at point (D) by unscrewing. Remove any leftover solution.
- 2. With thumb and index fingers, using a lifting motion, carefully remove jet (F).
- 3. Nebulizer plastic parts should be rinsed with hot tap water after every use by removing the bulb (I) from the nebulizer base (G) and cleaned between test subjects.
- 4. Clean nebulizer using two clean plastic containers or bowls. Fill one with hot water and dishwashing detergent for washing, and fill the other with hot water and vinegar solution (one part vinegar to three parts water) for soaking.
- 5. Place nebulizer plastic parts and mouthpiece in bowl of detergent solution and clean thoroughly. Remove and rinse with clear hot tap water (131°F 149°F/55°C 65°C), then soak in vinegar solution (>=5% acetic acid concentration) for 30 minutes. Rinse with hot tap water and air dry.
- 6. Nebulizer plastic parts O-ring (E), and bulb (H) may also be sterilized by boiling. If using medical disinfectant cleaners, follow manufacturer's instructions carefully. Keep the outer surface of the bulb (H) dust-free by wiping with a clean, damp cloth.



Never permit water or solution to enter the bulb as it will cause the bulb to become prematurely brittle.

B. PROPER FITTING OF THE TEST HOOD

Remove the hood from the kit, unfold and flatten.

Locate the snaps at each of the top corners and snap to form a cone if needed for a fit that allows free movement of the test subjects head.



Prepared hood ready for donning.
(Snaps are not required if there is ample room for movement)

Place the hood over the subject's head. Pull the strings to obtain a loose fit on top of the subject's shoulders. Do not tighten around the neck. Use the toggle to secure the hood.



Position the hood forward to allow free movement of the test subject's head while wearing a respirator and ensure even distribution of the misted solutions.

C. PERFORM THE SENSITIVITY TEST-STAGE ONE

The sensitivity test is performed to ensure that the test subject can taste the bitter solution at a diluted level of the fit test solutions.

The test subject should not eat or drink anything for 15 minutes before the test. Gum, oral rinses and smoking should also be avoided.



- 1. Have the subject don the test hood without a respirator.
- 2. Instruct the subject to breathe through their open mouth with their tongue extended.



- 3. Place the vapor tube (A) of the nebulizer with the sensitivity solution through the hole in the hood window and fully compress the nebulizer bulb (H) 10 times to introduce a mist into the hood.
 - Avoid pointing the nebulizer nozzle directly at the nose and mouth of the subject.
- 4. Ask the subject if they can taste the Bitrex mist. If tasted, document the number of squeezes and proceed to Stage Two (Fit Test).

NOTE: If the test subject reports tasting the Bitrex at any time during the first 10 compressions of the nebulizer the test threshold is documented as ten regardless of the number of squeezes completed.

- 5. If the first response is negative, ten more squeezes are repeated rapidly and the test subject is again asked whether the Bitrex is tasted. If the test subject reports tasting the second ten squeezes, the screening test is completed. The taste threshold is noted as twenty regardless of the number of squeezes actually completed.
- 6. If the second response is negative, ten more squeezes are repeated rapidly and the test subject is again asked whether the Bitrex is tasted. If the test subject reports tasting the bitter taste during the second ten squeezes, the screening test is completed. The taste threshold is noted as thirty regardless of the number of squeezes.
- 7. The test conductor will take note of the number of squeezes required to solicit a taste response.
- 8. If the Bitrex is not tasted after 30 squeezes (Step 6), the test subject is unable to taste Bitrex and may not perform the Bitrex fit test.



If the subject does not taste the solution after thirty squeezes, do not perform the fit test.

D. PERFORM THE FIT TEST-STAGE TWO

- If the sensitivity test is successful, remove the hood and allow a few minutes to clear the taste from the mouth.
- 2. Have the test subject don and fit check the respirator per the donning instructions included with the respirator or view the training video on www.nexttegnews.com.
- 3. Instruct the subject to put the hood back on as outlined in Stage One and breathe through the mouth.
- 4. Place the vapor tube of the nebulizer with the fit test solution through the hole in the hood window and produce the mist using the same number of full bulb squeezes used in the sensitivity test.

NOTE: To maintain an adequate concentration of misted solution during the test, administer one-half of the number of squeezes used in Step 4 every thirty seconds.

- 5. Instruct the test subject to advise the administrator if they detect the bitter taste of the solution at any time during the test.
- 6. After the initial mist is produced, instruct the subject to complete the following exercises for sixty seconds each.
 - a. Breathe normally.
 - b. Deep breathing with deep, regular breaths.
 - c. Turn head from side to side, completing one turn every second.
 - d. Nod head up and down, one motion every second.
 - e. Talking. The subject shall talk out loud slowly and loud enough so as to be heard clearly by the test conductor. The subject can read from a prepared text such as the Rainbow Passage at the bottom of this page, count backward from 100, or recite a memorized poem or song.
 - Bend over. The subject will bend at the waist as if to touch the toes every second.
 - g. Normal breathing.
- 7. Pass/Fail
 - Pass If the test subject does not report tasting Bitrex the test is passed.
 - Fail If the taste of Bitrex is detected, the fit is unsatisfactory and the test is failed. A different respirator should be tried and the test procedure, both sensitivity and fit test, is repeated.

"The Rainbow Passage"

When the sunlight strikes the raindrops in the air, they act like a prism and form a rainbow. The rainbow is a division of white light into many beautiful colors. These take the shape of a long round arch, with its path high above, and its two ends apparently beyond the horizon. There is, according to legend, a boiling pot of gold at one end. People look, but no one ever finds it. When a man looks for something beyond this reach, his friends say he is looking for the pot of gold at the end of the rainbow.