SNAPSHOOT
ENGINEERED FOR A SAFER TOMORROW

# 현장을 이해하고, 필요한 솔루션을 연결합니다.

산업안전 · 추락방지 시스템
산업용 소재 · 건축자재
제품 제안부터 공급·시공·설치·교육까지




COMPANY INFORMATION

**스냅슛 (SNAPSHOOT)**

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TECHNICAL DOCUMENTS

## 인증서 · 데이터시트 · 기술자료

제품의 규격과 성능, 인증 및 적용 조건을 확인하기 위한 자료입니다.

ABOUT SNAPSHOOT

### 제품 공급을 넘어, 현장에 맞는 해결책으로

스냅슛은 산업현장의 작업 환경과 요구 조건을 바탕으로
적합한 제품과 시스템을 제안합니다. 현장 실사를 통해 설치 조건을 확인하고,
공급부터 시공·설치 및 사용 교육까지 필요한 과정을 함께합니다.

**추락방지 시스템**

안전대부착설비 · 수평·수직 라이프라인
레일 시스템 · 리지드 포스트

**밀폐공간 진입·구조 솔루션**

데빗암 · 삼각대 · 구조용 윈치
윈치 안전블록 · 구조장비

**산업안전 보호구**

전신형 안전대 · 랜야드 · 안전블록
작업 환경에 맞춘 개인보호구

**산업용 소재·건축자재**

산업용 테이프 · 접착제 · 기능성 소재
구조용 스크류 · 목조건축 자재

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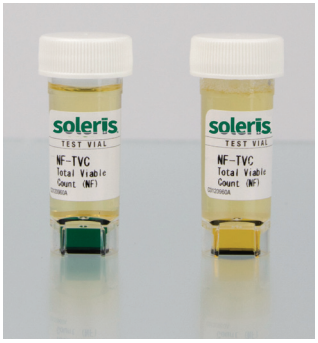
홈페이지 바로가기 →
문서 라이브러리 바로가기 →
시공사례 바로가기 →
문의하기 →

본 페이지는 스냅슛의 자료 제공 안내용 표지입니다. 첨부된 인증서 및 기술자료의 발행 주체, 인증 대상과 적용 범위는 해당 원문을 기준으로 확인해 주세요.

soleris®

# *Non-Fermenting Total Viable Count*

***Product Number: NF-TVC***




*Pictured:* Soleris® vial uninoculated (left) and inoculated vial (right).

## *Introduction*

The Total Viable Count (NF-TVC) Vial (9 mL) is suitable for sterility testing in a variety of matrices. The vial has broad inclusivity and an assay time of 24 hours or less for most applications. As organisms grow in the broth medium, the carbon dioxide ($CO_2$) produced diffuses through a membrane layer into a soft agar plug containing a dye indicator. The color change in the dye is read by the Soleris® instrument. The membrane layer also serves as a barrier, eliminating product interference with the reading frame.

In an AOAC Research Institute Performance Tested Method SM License #071203 study, the Soleris NF-TVC vial was found to be an effective procedure for semi-quantitative determination of total aerobic count in the following sample types: raw chicken, deli ham, lettuce, almonds, black pepper, cheesecake, ice cream mix, nonfat dry milk, and cocoa powder. Test duration is 24 hours, with the exception of cocoa powder, which is 27 hours.

### Materials Required

NF-TVC, Non-fermenting Total Viable Count (NF-TVC) vial

### Dependent on Sample Tested

1. Butterfield's Phosphate Buffer (BPB-99)
2. Sterile 1 N to 5 N sodium hydroxide (NaOH) and/or hydrochloric acid (HCl)
3. pH meter or pH paper
4. For USP Testing: Tryptic Soy Broth (BLX-TSB90)
    a. If required, use a designated neutralization broth, such as D/E Neutralizer, TAT Broth, Modified Letheen Broth, etc.

### Vial Specifications

1. Vial pH is 7.3 ± 0.2
2. Vial sample capacity up to 1.0 mL

### Vial Preparation

1. Remove NF-TVC vials from the refrigerator and allow to equilibrate to room temperature.

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## Sample Preparation

1. Add sample directly or, if using dilute-to-specification, complete the dilution required.
   a. For USP testing, perform 1:10 dilution by adding 10 g of sample in 90 mL of Tryptic Soy Broth or designated neutralization broth.
      i. Check pH and adjust, if necessary, to 7.0 ± 1.0.
   b. For all other testing, perform 1:10 dilution by adding 11 g of sample in 99 mL of Butterfield's Phosphate Buffer.
      i. Check pH and adjust, if necessary, to 7.0 ± 1.0.
2. If necessary, use Butterfield's Phosphate Buffer to create the dilutions to the appropriate specification.

## Sterility Testing

Preincubation for sterility testing

1. Preincubate the sample for 48–72 hours at 32–37°C as optimized for the customer.
2. Shake the container to thoroughly mix any organisms present in the product.
3. After the preincubation, test the sample by adding up to 1.0 mL of the sample to the vial.

## Inoculation of Vial

1. Inoculate the vial with no more than 1.0 mL and no less than 0.10 mL of the sample to be tested. If using dilute-to-specification method, add the volume of the appropriate dilution required.
2. Cap the vial and gently invert 3 times to mix sample. Keep cap tight.
3. Insert the vial into the Soleris instrument set at 32–35°C or as indicated by trainer. The incubation temperature and test duration can be optimized within the listed ranges for different product types. It is not recommended to adjust parameters without consulting NEOGEN® Technical Services.

## Algorithm Utilized:

| Test | Threshold | Skip | Shuteye | Test Duration | Temperature |
|---|---|---|---|---|---|
| NF-TVC | 10 | 1 | 30* | 24 hours* | 32°C–35°C |

*If shuteye detections are observed at 2.8 hours, the parameters may need to be adjusted based on product matrix. Please consult NEOGEN Technical Services for assistance.

**Caution**: Products containing $CO_2$-releasing compounds (e.g., ascorbic acid, calcium carbonate, or calcium ascorbate) need to be carefully validated, as reactions with the vial chemistry may occur causing false positive results.

## Disclaimers:

Information provided is based on validation procedures that NEOGEN performed in NEOGEN laboratories. Deviation from procedures is possible, but should be discussed with NEOGEN Technical Services.

Appearance of the vials should be inspected prior to use.

Certain product matrices may require new parameters. For more information, contact NEOGEN Technical Services.

If shuteye detections are observed, the threshold may need to be adjusted based on the product matrix. Certain product matrices may require parameter adjustments, including increased test duration. For more information contact NEOGEN Technical Services.