**NH イムコロムト リセリアα 取扱説明書**
※本キットをご使用になる前に必ずお読みください。

【用途】
NH イムコロムト リセリアαは、食品検査において様々な食品検体からのリセリア属の検出及び鑑別に用いられます。食品検査の分野では、リセリア属の検出が重要であり、これらの検体のリスクを低減するための検査が必要とされています。

【製品の内容】
1) テストストリップ
2) キット認定書
3) ビニールパッケージ

【使用方法】
1. テストストリップを適切な検体に適用する。
2. 約30分後に結果を確認する。

【注意事項】
- 検体は適切な温度を保つことが重要です。
- 検体の準備は検査の前に行うことが推奨されます。

【保存方法】
- 冷暗所で保存してください。

【製造所】
日本ハム株式会社

【問い合わせ先】
製造所：（ケイソウ】）
[Intended use]
NH ImmunoChromato Listeria is intended for use in food testing laboratories for qualitative detection of Listeria species from various food products. Not intended for diagnostic use.
This kit is intended for use by personnel familiar with the appropriate aseptic techniques for the isolation and identification of Listeria.

[Introduction]
Listeria is widely distributed in nature and can be found in soil, water, and vegetation. Since it is more resistant to heat, salt, and acid than other bacteria and can grow even in refrigerators [1], it may reach infective doses during distribution and storage of foods.
Outbreaks of listeriosis associated with foods including milk, cheese, vegetables, and meat have been reported around the world. Although no foodborne outbreak has been reported in Japan, it was revealed that the prevalence of Listeria in retail foods in Japan is similar to that in Western countries [2,9].
NH ImmunoChromato Listeria is a simple and rapid immunochromatographic test kit for detection of Listeria species. The kit does not require skilled personnel or well-equipped laboratory.

[Kit contents]
A: Test strip 2 tests x 10 packs (20 tests)
B: Instruction manual 1 sheet
C: Plastic bag with zipper 1 piece

[Principle of assay]
1) Illustration of test strip

[Detection limit]
The test using 9 strains of Listeria (L. monocytogenes, L. innocua, L. ivanovii, L. seeligeri, L. welshimeri, and L. grayi) revealed that enriched sample containing 1 × 10^4-1 × 10^5 CFU/mL of Listeria will yield a positive result.

Note 2: The lower detection limit of the kit may vary depending on Listeria serotypes, strains, and components of test solution.

[Precautions]
(1) Contamination with enriched culture can cause Listeria infection because they can contain high amounts of Listeria. Users of NH ImmunoChromato Listeria should familiarize themselves with the appropriate aseptic techniques for the isolation and identification of Listeria. Extreme care should be taken in handling samples, enriched cultures and used test strips.
(2) Do not use expired test strips. The expiration date is indicated on the aluminum pouches and the box.
(3) Good microbiological laboratory practices should be used to prevent contamination of samples, lab workers and the environment.

[Additionally required materials and instruments]
1. Enrichment broth (e.g. half Fraser broth, Fraser broth, EB broth, UVM broth)
2. Stomacher and stomacher bags (preferably with a filter)
3. Autoclave
4. Incubator (30°C to 37°C)
5. Balance (capable of weighing 25 g)
6. Test zone
7. Incubation with a bed of artificial micro pipettes and appropriate micro pipettes and disposable tips
8. Timer
9. Thermostatic bath (that for which temperature can be set at 80°C or higher)
10. Glass test tubes

[Test procedures]
(1) Weigh 25-g sample into the stomacher bag and add 225-mL primary enrichment broth (half Fraser broth).
(2) Homogenize with a stomacher. The length of time for homogenization may vary depending on sample type.
(3) Incubate the homogenized sample at 30°C for 24±3 hours.
(4) Remove the stomacher bag from the incubator and mix the culture gently using side-to-side motion.
(5) Incubate 0.1 mL of the primary enrichment culture to 10 mL of the secondary enrichment broth (Fraser broth) and incubate at 37°C for 48±3 hours.
(6) Remove the test tube from the incubator and mix the culture gently.
(7) Dispense 5 mL of the enriched culture to a glass test tube with a sterile pipette. Incubate the test tube at 80°C for 20 minutes. The incubated culture should be applied to test strips after cooling to room temperature.
(8) Allow the test strips warm to room temperature (20-25°C) before opening the aluminum pouch. Open the pouch immediately before use (Notes 4, 5).
(9a) Place a test strip on flat surface and with a new pipette tip apply 100 μL of the enriched sample, drop-wise to the sample application zone. Careful not to overload the sample application zone; overloading it may cause spillage.
(9b) Transfer 150 μL of the enriched sample into a test tube with a new pipette tip. Put a test strip in the test tube Immersing the sample application zone in the sample solution (Note 6).
(9c) Observe the test result 15 minutes after applying the sample solution to the test strip.

Note 3: Keep the remaining enriched samples unstirriled until the end of the test. Confirmatory tests, such as isolation of Listeria, might be required after testing with the kit. Unstirriled enriched samples can be used in confirmatory tests.

[Preparation of the test results]
(1) Positive results: Reddish purple line appears in the test zone and the control zone in 15 minutes after application of sample solutions.
(2) Negative results: A reddish purple line appears in the control zone.
(3) Invalid results: No reddish purple line appears in the control zone.

Note 7: Presumptive positive results should be confirmed according to the recommended method. The enriched samples prepared for testing with the kit can be used in confirmatory tests.

[Disposal]
Decontaminate used test strips, test tubes, pipettes, and enriched culture by autoclave, etc. In strict compliance with local, state and federal disposal regulations.

[Storage and expiration date]
(1) Storage: NH ImmunoChromato Listeria should be stored at 2-8°C under protection from the light.
(2) Expiration date: 12 months from the date of manufacture.

[Warranty]
NH Foods Ltd. makes no warranty, whether expressed or implied. If any materials are defective, Distributor or NH Foods Ltd. will provide a replacement of the product. There is no warranty of merchantability or fitness for a particular purpose. Each user is expected to verify the appropriateness of each product for their intended uses and application to individual food materials. NH Foods Ltd. shall not be liable for any damages, including special or consequential damage, or expense arising directly or indirectly from the use of this product.

[References]
(4) MHLW Notice No.1128, Article 3, from the Department of Food Safety " Detection Method for Listeria monocytogenes"

[Technical assistance]
For technical assistance, please contact distributor or manufacturer.
- Distributor (Labeled on the box)
- Manufacturer (R&D Center, NH Foods Ltd.)

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