SurfACE™ Sampling Solutions in Primary Production

Easy-to-use, sterile specimen collection and surface sampling kits for quality control and identification of hazards at critical control points in livestock farming applications.

Making the World's Food Safer®

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In livestock farming, the environment can indicate whether a farm safety program is functioning as it should. Environmental testing has therefore become a crucial part of any food and feed safety program. With a strong focus on environmental testing, Romer Labs provides a broad range of sampling solutions covering **livestock farming applications**.

Environmental Sampling for Livestock Farming Applications

Salmonella and *Campylobacter* contamination of poultry and other livestock products is a worldwide concern. To reduce instances of contamination at farms, methods for monitoring *Salmonella* and *Campylobacter* contamination in livestock shelters, beginning with drag swab sampling, have been developed by the USDA-FSIS (Food Safety Inspection Service). Drag swab kits are sterile sampling devices used to sample poultry litter for pathogenic organisms such as *Salmonella*. Alternately boot swabs are also used as stated in various EU regulations (e.g. Regulation of the Commission No. 2160/2003, 213/2009, 200/2010, 517/2011, 200/2012 and 1190/2012) to meet this objective.

Available pre-moistening solutions:

Buffered Peptone Water (BPW) – Buffered Peptone Water is a pre-enrichment medium useful for isolating *Salmonella* from foods and primary production samples like boot- or drag swabs. During many processes, *Salmonella* and other species can suffer sub-lethal injury from processes involving heat, desiccation, preservatives, pH changes or osmotic pressure shifts. BPW has been shown to facilitate the resuscitation of stressed cells and is recommend in the ISO 18593 (Microbiology of the food chain — Horizontal methods for surface sampling) as a moistening solution for sampling devices for the recovery of microorganisms from surfaces.

Maximum Recovery Diluent (MRD) - Maximum Recovery Diluent is formulated as recommended by ISO 18593 for use as a diluent for general purposes. It is also known as Peptone salt solution (0.1% Peptone, 0.8% NaCl).

Double Strength Skim Milk (SM) - The skim milk (holding medium) provides a protective environment for any *Salmonella* collected and makes the swab slightly sticky, enhancing the adherence of litter particles.

Sterile Boot Cover Swab

- 5.9" x 5.9" (15 x 15 cm) biocide-free cotton-polyester blend fabric sewn into a sock shape
- Integrated elastic band sewn into the top in order to aid in securing it to the boot
- Dry or pre-moistened with either skim milk or buffered peptone water
- Packaged in a Twirl–Tie™ lab bag
- Bags can be opened easily with attached pull tabs
- Label area for sample identification
- Irradiated for proven sterility

Procedure:

Slip a disposable plastic boot cover to prevent cross-contamination or use a dedicated boot from the target barn.

Tear open Twirl-Tie™ bag and remove pre-moistened boot swab from it and place it securely over your boot.

Walk through the livestock facility according to your sampling plan.

Remove boot swab and return it to its original Twirl-Tie™ bag. Seal bag and label sample.

Boot Cover Swabs in 24 oz. (0.7 L) Twirl-Tie™ Bag, sterile 5.5" x 9" (14 x 23 cm)

Package Size	Description	Item No.
100	pre-moistened with skim milk - single	10001906
100	pre-moistened with skim milk - pair	10001910
100	pre-moistened with BPW - single	10001904
100	pre-moistened with BPW - pair	10001907
100	dry - single	10001905
100	dry - pair	10001908

Boot Cover Swabs (according to EU Commission Regulation) in 55 oz. (1.62 L) Twirl-Tie™ Bag, sterile 7.5" x 12" (19 x 30 cm)

Package Size	Description	Item No.
100	pre-moistened with BPW – pair	10001911
100	pre-moistened with BPW – 2 pairs	10001913
50	pre-moistened with BPW – 2 + 3 pairs	10001914
150	pre-moistened with skim milk – single	10006296
100	pre-moistened with skim milk – pair	10006297

Ready-to-Use Kits in Zipper Bags (according to EU Commission Regulation):
Boot Cover Swabs in 55 oz. (1.62 L) Twirl-Tie™ Bag, steril 7.5" x 12" (19 x 30 cm)
+ 2 Plastic Boot Coves (Item No. 10004591) + 2 Gloves

Package Size	Description	Item No.
50	pre-moistened with BPW – pair	10001912
50	pre-moistened with BPW – 2 pairs	10004588
50	pre-moistened with BPW – 2 + 3 pairs	10004590
50	pre-moistened with skim milk – pair	10006305

Plastic Boot Covers

Package Size	Description	Item No.
200	Plastic boot cover with elastic band	10004591
50	Plastic boot cover (oversize)	10001917

Drag Swabs

- 12-ply 4" x 4" (10 x 10 cm) biocide-free cotton gauze or 3" x 1.5" (7.5 x 3.5 cm) biocide-free cellulose sponge
- Pre-moistened with 10 ml skim milk
- Packaged in foil pouches or 120 ml plastic screw-cap
- Shelf life of 24 months (in foil) or 12 months (in vial) from production
- With or without string attached (6 ft, 1.8 m)
- Twirl-Tie™ bag (24 oz; 5.5" x 9") and gloves included (except 10002378)
- Bags can be opened easily with attached pull tabs
- Irradiated for proven sterility
- Label area for sample identification

Procedure:

Remove drag swab from package and unwind free end of the string, allow swab assembly to unravel and fall to litter surface.

Secure string on belt or hold it by hand and drag swab over litter by walking through building.

Return swab to plastic vial or place it into the Twirl-Tie™ bag. Close cap or seal Twirl-Tie™ bag with attached wire and label sample.

Package Size	Description	Item No.
100	Drag Swabs - cotton gauze moistened in skim milk	10002371
100	Swabs - cotton gauze moistened in skim milk (no string)	10002373
100	Swabs - cotton gauze moistened in skim milk (no string, 3 per foil)	10002374
100	Drag Swabs - cellulose sponge moistened in skim milk	10002377
100	Drag Swabs - cotton gauze moistened in skim milk (in vial)	10002378

Fabric Swab

- 28 x 32 cm blue biocide-free fabric swab (swab cloth)
- Pre-moistened with 10 ml buffer
- In 55 oz.; 7.5 x 12" (19 x 30 cm) Twirl-Tie™ bag
- Bags can be opened easily with attached pull-tabs
- Label area for sample identification
- Irradiated for proven sterility

Procedure:

Open the bag and remove fabric swab with gloved hand.

Collect sample by vigorously rubbing fabric swab on targeted area (e.g. 30 x 30 cm, 1 x 1 ft.).

Put the swab into the sterile sample bag and label bag with sample details. Always switch gloves between sampling sites.

Close the Twirl-Tie™ bag with the wires attached.

Fabric Swabs (according to EU Commission Regulation, 28 x 35 cm, ≥ 900 cm²) in 55 oz. (1.62 L) Twirl-Tie™ bag, sterile 7.5" x 12" (19 x 30 cm)

Package Size	Description	Item No.
200	Fabric Swab pre-moistened with MRD	10004589
200	Fabric swab pre-moistened with Neutralizing Buffer (NB)	10006188

Flex-Paddles

(US & Canada only, elsewhere see HygieneChek™)

- In-house hygiene management system
- Check your farm after disinfection
- Two agar surfaces per paddle
- 10 cm^2 per side
- Only small incubator needed
- Flexible agar paddle for liquid as well as surfaces testing
- Just dip the paddle into a liquid or press agar onto the surface to be tested

Package Size	Side 1	Side 2	Item No.
10	Microbial Content Test Agar (total aerobic count)	Sabouraud Dextrose Agar (yeast & mold)	10002784
10	MacConkey Agar (coliform)	MacConkey Agar (coliform)	10002785
10	Microbial Content Test Agar (total aerobic count)	Microbial Content Test Agar (total aerobic count)	10002786

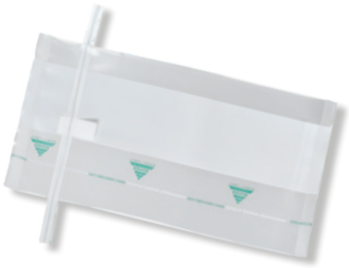
Miscellaneous Environmental Sampling Products

Sterile Gloves

- In convenient tear-open plastic pouch
- Packaged as a pair of gloves per pouch
- Irradiated for proven sterility

Sterile Sampling Bag

- Sterile 18 oz (0.5 L) or 24 oz (0.7 L) bags
- Twirl-Tie™ style sample bags
- Label area for sample identification
- Bags can be opened easily with attached pull tabs
- Irradiated for proven sterility



Sterile Carcass Sampling Template

- 100 square cm (10 x 10 cm) or 50 square cm (10 x 5 cm)
- For carcass or surface sampling
- Made of rigid paperboard to withstand vigorous use
- Packaged in an easy-to-open plastic bag
- Irradiated for proven sterility

Package Size	Description	Item No.
100	100 cm^2 template packaged in re-closable bag	10003780
100	50 cm^2 template packaged in re-closable bag	10003786
50 pairs	Co-polymer gloves size XL packaged in peel open pouch	10002795
100	18 oz. (0.5 L) Twirl-Tie™ sample bag, sterile 4.5" x 9"	10001883
100	24 oz. (0.7 L) Twirl-Tie™ sample bag, sterile 5.5" x 9"	10001884
500	55 oz. (1.62 L) Twirl-Tie™ sample bag, sterile 7.5" x 12"	10001886

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