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# Hygiene Report

28-02-2012

| | | |
|---|---|---|
| **Client** | **:** | Novartis Healthcare A/S<br>Lyngbyvej 172, 2100 København Ø |
| **Subject** | **:** | Poultry house number 2 (7200 m² surface) |
| **Test date** | **:** | 15 and 16-02-2012 |
| **Performer** | **:** | Ove Christoffersen |
| **Method** | **:** | Hygicult **(**Total Bacteria count/cm² before and after use of Germ Patrol diluted 1:1 – 50%**)** |
| **Purpose** | **:** | To see the effect after disinfection (low pressure manuel) |

After cleaning of stable with 10 liter of alkaline detergent, the amount of bacteria has been measured on the floor (concrete) and inventory (plastic, galvanized steel and painted walls). A ready to use solution of Germ Patrol 50% was brought into the house by low pressure – 133 ml per square meter surface. The surfaces were wet for app. 25 minutes. Temperature in house was 17,1 ºC.
After 24 hours the amount of bacteria has been measured again.
After incubation for 48 hours, at 36 ºC the following result has appeared.

## Resuts Hygicult TPC:

| **SUBJECT** **Poultry house** | Total bacterial count/cm² **before** Germ Patrol 50% | Total bacterial count/cm² **after** Germ Patrol 50% |
|---|---|---|
| 1 : Floor (concrete) A | >100 | 0-1 |
| 2 : Floor (concrete) A | >100 | 0-1 |
| 3 : Floor (concrete) B | >100 | 0-1 |
| 4 : Floor (concrete) B | >100 | 1 |
| 5 : Floor (concrete) C | >100 | 0-1 |
| 6 : Floor (concrete) C | >100 | 0-1 |
| 7 : Floor (concrete) D | >100 | 1 |
| 8 : Floor (concrete) D | >100 | 0-1 |
| 9 : Floor (concrete) E | >100 | 0-1 |
| 10 : Floor (concrete) E | >100 | 1 |
| 11 : Floor (concrete) F | >100 | 1 |
| 12: Floor (concrete) F | >100 | 1 |
| 13: Floor (concrete) G | >100 | 1 |
| 14: Floor (concrete) G | >100 | 0-1 |
| 15: Floor (concrete) H | >100 | 0-1 |
| 16: Floor (concrete) H | >100 | 0-1 |
| 17: Floor (concrete) I | >100 | 0-1 |

| | | |
|---|---|---|
| 18 : Floor (concrete) I | >100 | 0-1 |
| 19 : Blindtest | 0 | 0 |
| 20: Blindtest | 0 | 0 |
| 21: Waterline (plastic) 1-f2 | 70 | 0-1 |
| 22: Waterline (plastic) 1-f2 | 70 | 0-1 |
| 23: Waterline (plastic) 2-f8 | 70 | 0-1 |
| 24: Waterline (plastic) 2-f8 | 80 | 1 |
| 25: Waterline (plastic) 3-f11 | 70 | 0-1 |
| 26: Waterline (plastic) 3-f11 | 70 | 0-1 |
| 27: Waterline (plastic) 4-f12 | 80 | 1 |
| 28: Waterline (plastic) 4-f12 | 70 | 1 |
| 29: Waterline (plastic) 5-f14 | 70 | 0-1 |
| 30: Waterline (plastic) 5-f14 | 70 | 0-1 |
| 31: Feed line (galvanized) 1-f2 | 50 | 0-1 |
| 32: Feed line (galvanized) 1-f2 | 50 | 0-1 |
| 33: Feed line (galvanized) 2-f7 | 50 | 0-1 |
| 34: Feed line (galvanized) 2-f7 | 40 | 0-1 |
| 35: Feed line (galvanized) 3-f11 | 40 | 0-1 |
| 36: Feed line (galvanized) 3-f11 | 40 | 0-1 |
| 37: Feed line (galvanized) 4-f14 | 40 | 0-1 |
| 38: Feed line (galvanized) 4-f14 | 40 | 0-1 |
| 39: Wall (painted) right side f7 | 40 | 0-1 |
| 40: Wall (painted) right side f7 | 40 | 0-1 |
| 41: Wall (painted) right side f14 | 50 | 0-1 |
| 42: Wall (painted) right side f14 | 40 | 0-1 |
| 43: Wall (painted) left side f14 | 50 | 0-1 |
| 44: Wall (painted) left side f14 | 40 | 0-1 |
| 45: Wall (painted) left side f5 | 40 | 0-1 |
| 46: Wall (painted) left side f5 | 40 | 0-1 |
| 47: Side ventilation (plastic) L-f14 | 50 | 0-1 |
| 48: Side ventilation (plastic) L-f14 | 80 | 1 |
| 49: Side ventilation (plastic) L-f1 | 80 | 1 |
| 50: Side ventilation (plastic) L-f1 | 70 | 1 |
| 51: Side ventilation (plastic) R-f4 | 50 | 0-1 |
| 52: Side ventilation (plastic) R-f4 | 50 | 0-1 |
| 53: Side ventilation (plastic) R-f12 | 50 | 0-1 |
| 54: Side ventilation (plastic) R-f12 | 50 | 0-1 |
| 55: Door (aluminum) | 50 | 0-1 |
| 56: Door (aluminum) | 50 | 0-1 |
| 57: Door (aluminum) | 50 | 0-1 |
| 58: Door (aluminum) | 50 | 0-1 |
| 59: Blind test | 0 | 0 |
| 60: Blind test | 0 | 0 |

| | Total bacterial count/cm² **before** Germ Patrol 50% | Total bacterial count/cm² **after** Germ Patrol 50% |
|---|---|---|
| **INDEX floor:** | **>100.0** | **0.3** |
| **INDEX inventory:** | **55.0** | **0.2** |
| **INDEX total:** | **69.5** | **0.2** |

All numbers are per cm² and average from 9,5cm² per measure.

**CONCLUSION:** The aim is values between 1 and 5.
Index must be below 1.5
The reduction of bacteria totally is fine.



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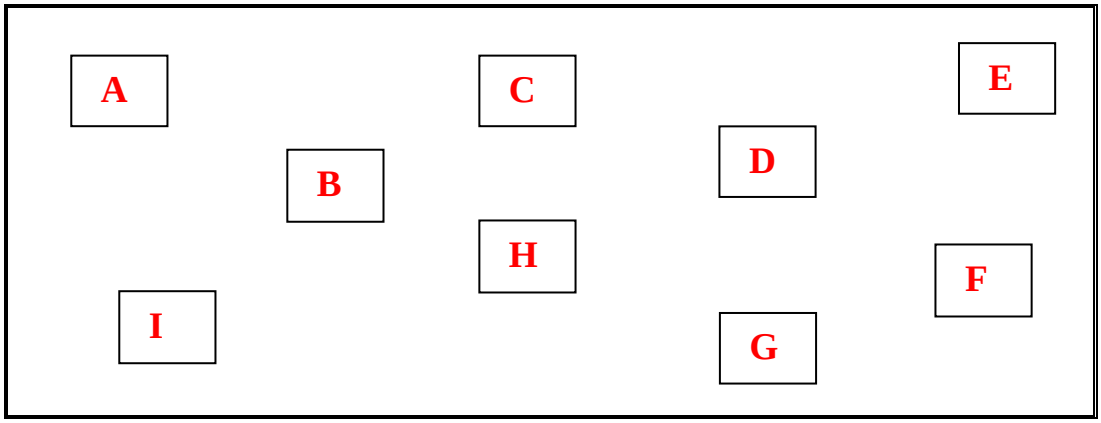
POULTRYHOUSE: test spots




Red letters are test spots on floor

| |
|---|
| Waterline number 5 |
| Waterline number 4 |
| Waterline number 3 |
| Waterline number 2 |
| Waterline number 1 |

f1 f2 f3 f4 f5 f6 f7 f8 f9 f10 f11 f12 f13 f14

Waterline 3-f7 = test spot waterline 3-f7

| |
|---|
| Feed chain 4 |
| Feed chain 3 |
| Feed chain 2 |
| Feed chain 1 |

f1 f2 f3 f4 f5 f6 f7 f8 f9 f10 f11 f12 f13 f14