

# MediCheck™

## Rapid Protein Residue Test

Part No: MDCK-100 (100 tests)



### Description/ Intended Use:

MediCheck is a ready-to-use, high-sensitivity, rapid test for detection of protein residues on surfaces after cleaning. MediCheck will turn from green to purple if protein is present in a sample. The more protein collected in a sample, the quicker and darker the color change. MediCheck is intended to be used for rapid verification of surface cleanliness.

MediCheck will also detect other reducing substances such as simple sugars, tannin and ascorbic acid.

*Note: MediCheck is designed to detect invisible/trace amounts of residue. Overloading the swab with physical matter by swabbing a visibly dirty surface will inhibit the reaction and produce inaccurate results.*

### Required Materials:

- Incubator set at 37 °C
- Timer

### Directions:

1. Allow MediCheck to equilibrate to room temperature (21 – 25 °C) before use. Holding swab tube firmly, twist and pull top of swab out of swab tube. Condensation may be visible on inside of swab tube; this is normal. Swab tip is pre-moistened for maximum sample collection. Thoroughly swab a standard 10 x 10 cm (4 x 4 inches) area for a typical flat surface. For irregular surfaces, ensure swabbing technique remains consistent for each test and swab a large enough area to collect a representative sample.

#### Important swabbing technique tips:

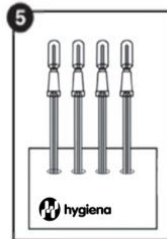
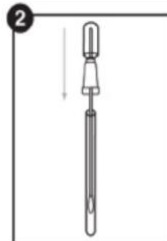
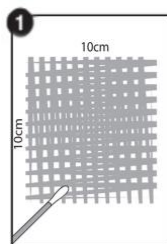
- Do not touch swab or inside of sample device with fingers.
- Rotate swab while collecting sample to maximize sample collection on swab tip.
- Apply sufficient pressure to create flex in swab shaft.
- Swab in a crisscross pattern vertically, horizontally, and in both diagonal directions.

2. After swabbing, replace swab back in swab tube.
3. To activate device, hold swab tube firmly and use thumb and forefinger to break Snap-Valve by bending bulb forward and backward. Squeeze bulb twice, expelling all liquid down swab shaft.
4. Bathe swab bud in liquid by shaking for 5 – 10 seconds.
5. Incubate at 37 °C for 30 minutes.
6. After time is complete, compare the solution color against the MediCheck color chart on tube label and record result. Refer to Interpretation of Results below.

### Interpretation of Results:

Color of MediCheck solution and time in which color change takes place will indicate protein residue levels in sample. By comparing the solution color against the chart on the MediCheck tube label, an estimate of surface cleanliness can be made. There is no need to continue incubation if the color changes to purple before test time is complete.

- Green = Pass result. Clean, no further action required.
- Grey = Caution. Small amount of residue present; Re-test, re-rinse, or re-clean, depending on protocol.
- Purple = Fail result. Re-clean and re-test.



### Caution:

At very low levels of protein when color intensity is weak (grey), care needs to be taken when interpreting results. Green-grey or any green color should be regarded as a negative for protein; therefore, a Pass result. Comparison with a negative control (activated without sample collection, incubated at same time and temperature) could also be conducted for reference.

### Sensitivity:

37 °C for 30 minutes = 3 µg protein

Protein content (µg BSA)	Time at 37 °C			
	5	10	15	30
10	✓	✓	✓	✓
5		✓	✓	✓
3				✓

### Sanitizer Information:

Common sanitizers at normal concentrations do not cause interference or false-positives. High concentrations of alkaline sanitizers may cause false-negative results in some cases. Peroxide-based disinfectants can cause a false-positive color change reaction. It is best practice to wait an appropriate time after sanitizing before testing a surface with MediCheck. Sanitation is usually a two-step process involving detergent cleaning and subsequent (optional) disinfection. To ensure best results, collect the MediCheck sample after the detergent and rinsing steps, but prior to any terminal disinfection. Product residues left on a surface after detergent cleaning reduces the effectiveness of disinfection. Testing prior to disinfection prevents wasted chemicals and time and ensures optimum test performance. If testing prior to disinfection/sanitization is not possible, observe proper dwell time before using MediCheck.

### Storage & Shelf Life:

- For maximum shelf life, store at 2 – 25 °C (36 – 77 °F)
- Lot number and expiration date are printed on each device and product label.

### Disposal:

MediCheck devices are made of 100% recyclable plastic and may be discarded accordingly.

### Safety & Precautions:

- Components of MediCheck do not pose any risk to health when used in accordance with standard laboratory practices and procedures in this insert.
- For further safety instructions, refer to Safety Data Sheet (SDS).

### Hygiena® Liability:

Hygiena will not be liable to user or others for any loss or damage whether direct or indirect, incidental or consequential from use of this device. If this product is proven to be defective, Hygiena's sole obligation will be to replace product or at its discretion, refund the purchase price. Promptly notify Hygiena within 5 days of discovery of any suspected defect and return product to Hygiena. Please contact Customer Service for a Returned Goods authorization number.

### Contact Information:

If more information is required, please visit us at [www.hygiena.com](http://www.hygiena.com)

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