

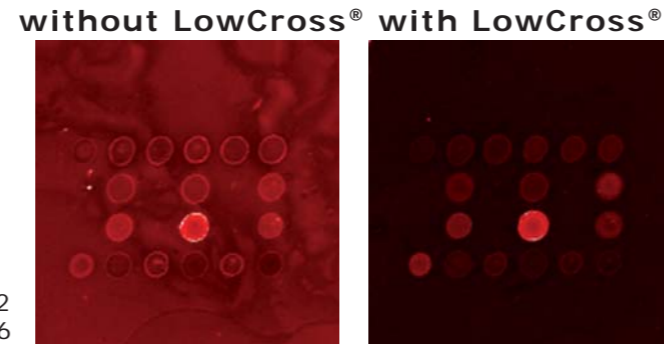
# A Comparison of Results

## Protein array

Reduction of background

multiple antibodies against an identical analyte spotted on a slide

signal to noise ratio  
without LowCross®: 3,42  
with LowCross®: 17,26

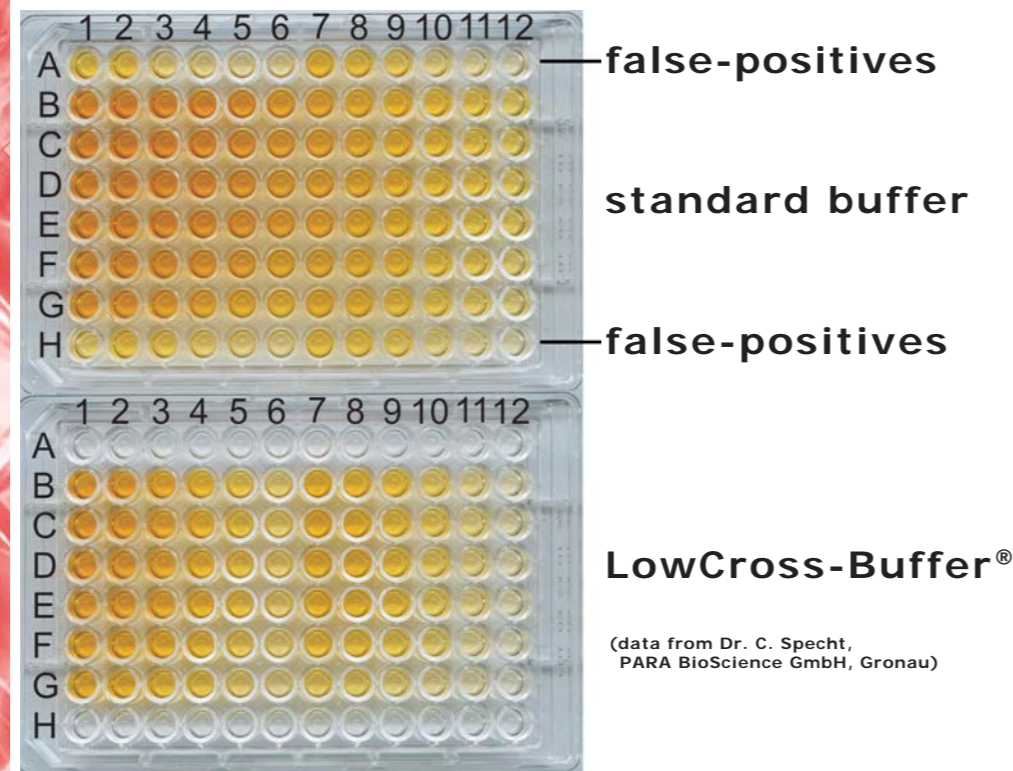


(data from Dipl. Chem. N. Dankbar, University of Münster)

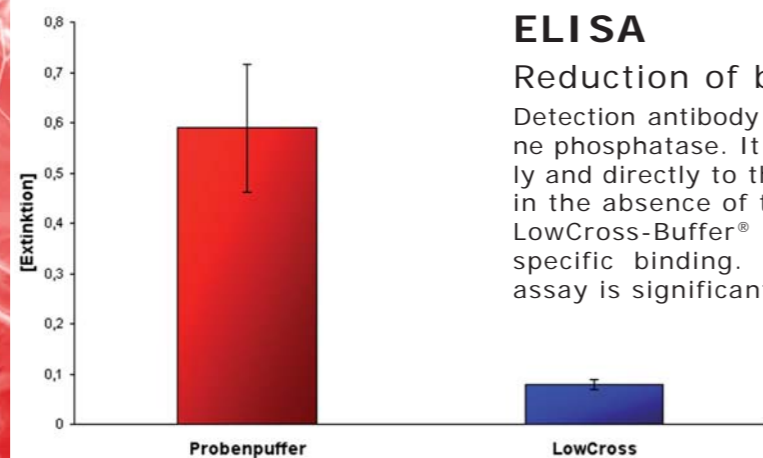
## ELISA

Avoid false-positive binding

Control of specificity (A1-A12) and blanks (H1-H12) show false-positive binding.



(data from Dr. C. Specht, PARA BioScience GmbH, Gronau)



(data from M. Braun, PD Dr. H.-P. Wendel, Clinic of Thorax-, Cardiac- and Vascular Surgery, research laboratory, University Hospital of Tübingen)

## ELISA

Reduction of background

Detection antibody is coupled to alkaline phosphatase. It binds nonspecifically and directly to the capture antibody in the absence of the analyte. LowCross-Buffer® prevents this non-specific binding. Background of the assay is significantly reduced.

## Western blotting

Reduction of nonspecific binding and background

Only the combination of CANDOR Blocking Solution with LowCross-Buffer® enables detection of Myostatin. This bears evidence the evently spread background observed is not caused by insufficient blocking of non-specific binding at the membrane surface alone.

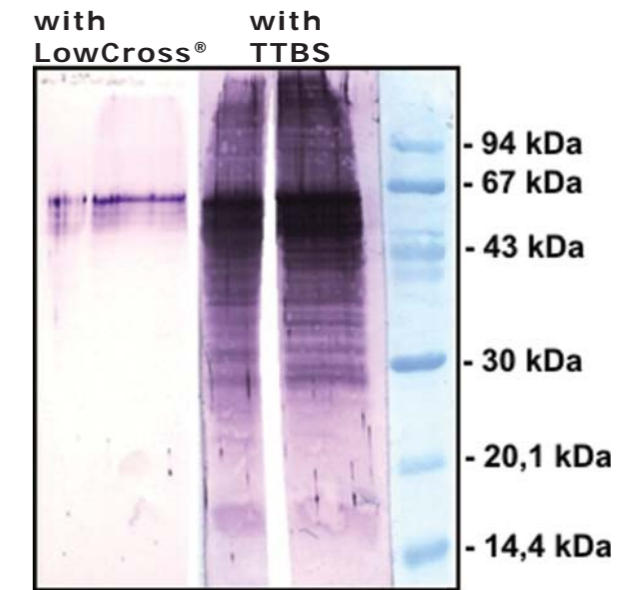


(data from S. Siewert, A. Döhring, PD Dr. W. Weidemann, Institute of Zoology and Endocrinology, University of Ulm)

## Western blotting

Avoid nonspecific binding

Detection of cytokeratin 4, 5 and 6 is affected by a combination of non-specific binding and cross-reactivities in a dramatic way. The expected bands can be clearly detected with LowCross-Buffer®.

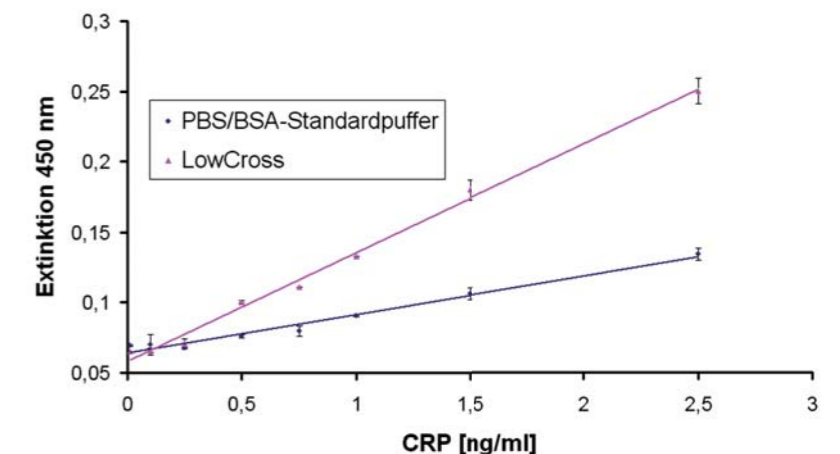


(data from Dr. D. Sperling, Macherey & Nagel GmbH & Co. KG, Düren)

## ELISA

Eliminate matrix effect

Matrix effect in an assay for detection of CRP (c-reactive protein) in rabbit blood plasma. Matrix proteins in plasma mask the analyte CRP. LowCross-Buffer® demasks the analyte and improves sensitivity and detection limit by a factor of 3.

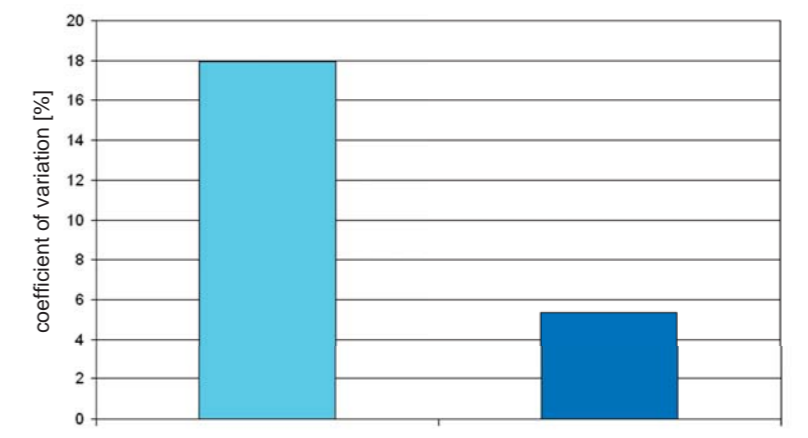


(data from Dr. P. Rauch, CANDOR Bioscience GmbH, Weißenberg)

## ELISA

Decrease COV

Interference from used human plasma caused a high coefficient of variation (COV) with PBS/BSA Tween (n=96, determined over the whole measurement range). COV is decreased significantly by the use of LowCross-Buffer®. The reason is the avoidance of an interference effect. Thus criteria of the „Guidance for Industry - Bioanalytical Method Validation“ of the FDA could be met. They require for accuracy and precision a maximum of 15%.



(data from Dr. P. Rauch, CANDOR Bioscience GmbH, Weißenberg)