MEDIWISS Analytic GmbH
Uerdinger Strasse 3
D-47441 Moers
02841/8890470
pwahl@mediwiss-analytic.de

AllergyScreen®/AleisaScreen®
CIRCULAR LETTER 11

A new feature of the B4C-software

The new B4C-software version 70 available for the Improvio scanners C, M and L includes a new feature for the evaluation of defiled membranes. During the processing of the AllergyScreen®/AleisaScreen® test it sometimes happens that defilements in form of spots, dirt, colour stains or fingerprints are visible on the membranes. These impurities have an effect on the measured results. The algorithm used in the former B4C versions had difficulties distinguishing between an allergen line and a pollution overlapping an allergen line. This made it necessary for the customer to check if the given results are due to a real sensitisation pattern of the patient or if the membrane is polluted and therefore results have to be regarded with respect.

The new software version uses an algorithm which is able to distinguish between the allergen lines and impurities on the membrane (figure 1 and 2). The pollution is deducted from the allergen lines resulting in the corrected image. The evaluated results are based on the corrected image, which is free of impurities.
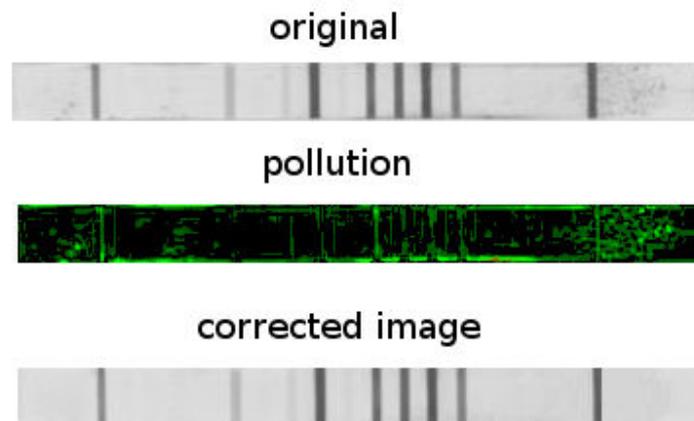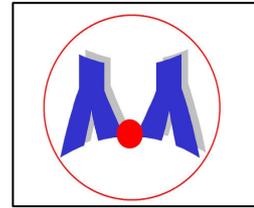

Figure 1. A polluted AllergyScreen® membrane (upper panel). The pollution of the original membrane is recognized by the new algorithm (green colour in the middle panel) and substituted from the image, resulting in the corrected image which is taken for evaluation (lower panel).

MEDIWISS Analytic GmbH

Uerdinger Strasse 3
D-47441 Moers
02841/8890470
pwahl@mediwiss-analytic.de

AllergyScreen®/AlleisaScreen®
CIRCULAR LETTER 11

Figure 2. A polluted AlleisaScreen® membrane (upper panel). The pollution of the original membrane is recognized by the new algorithm (green colour in the middle panel) and substituted from the image, resulting in the corrected image which is taken for evaluation (lower panel).

The new feature is available soon, for all customers using an Improvio scanner. The new algorithm is active in the B4C-software version 70.

The corrected image of the membrane is taken for the evaluation of the AllergyScreen® and AlleisaScreen® tests, but the original, polluted, image is displayed in the software and on the print out.

A comparison of the new version 70 and former versions of the B4C-software revealed that there are no significant differences in the results given in classes and units for unpolluted areas of the membrane.

If you have any question concerning the new feature of the B4C-software version 70 please contact one of the following persons:

nhofmann@mediwiss-analytic.de
pwahl@mediwiss-analytic.de