



GreenLight™ TVC method certified by MicroVal



The GreenLight™ TVC method by Luxcel Biosciences Ltd for the enumeration of bacteria in raw meat and poultry has been validated and certified by MicroVal.

MicroVal is the European organization for the validation and certification of alternative microbiological methods according to [EN-ISO 16140](#).

MicroVal certificate

On 11 October 2011 a MicroVal certificate RQA2009LR15 was issued to Luxcel Biosciences Ltd for their GreenLight™ TVC method for the total viable count in raw meat and poultry.

The validation studies were performed by the MicroVal Expert Laboratory Campden BRI (United Kingdom). The MicroVal Method Reviewers, Dr. Henk Stegeman and Prof. Basil Jarvis, reviewed the validation reports. The MicroVal Certification Body Lloyd's Register QA (The Netherlands) issued the certificate. The certificate will be valid for 4 years. After that period the certificate could be renewed on the request of the manufacturer. MicroVal experts will judge whether the kit and kit insert still comply with the criteria of the EN-ISO 16140 standard of that moment.

Principle of the method

The GreenLight™ TVC method developed by Luxcel Biosciences Ltd. is a method for the detection and enumeration of microbial populations in raw meats. The GreenLight™ assay measures bacterial oxygen consumption and equates this to the microbial load in the sample. As

bacteria in the test sample grow and respire, they deplete O₂ which is detected as an increase in the GreenLight™ probe signal above a baseline level. The time required to reach this increase in signal is used to calculate the colony forming units per gram (CFU/g) of the original sample, based on a pre-determined calibration provided with the test.

GreenLight™ can provide results within hours (1-12 hrs depending on bacterial load). This facilitates rapid, easy and sensitive enumeration of bacterial load without the need to conduct multiple sample dilutions and lengthy tedious counts.

Reference method

The methods were compared to the reference standard method [EN-ISO 4833:2003](#). Microbiology of food and animal feeding stuffs - Horizontal method for the enumeration of microorganisms - Colony-count technique at 30 degrees C

Scope

Raw meat and poultry

More information?

For more information you may contact the MicroVal secretariat, Netty Zegers, phone +31.15. 2 690 410, e-mail: netty.zegers@nen.nl

The [MicroVal certificates](#) can be found at www.microval.org