



NQAC

Nestlé Quality Assurance Center  
Dublin

# Technical Datasheet

**Analysis Name:** Enumeration of Probiotic Bacteria

**Method Number:** LI-00.794

**Scope of Application:** Probiotic culture powders, pre-blends and shelf stable finished products such as milk-based formula and infant cereals. The normal range varies from  $1 \times 10^7$  to  $1 \times 10^{12}$  CFU/g.

**Description:** A quantitative method for the enumeration of probiotic bacteria. Samples are weighed, rehydrated and homogenized. Serial dilutions are made with the same diluent and are plated and mixed with a specific agar. Samples are incubated at 37°C for 48 hours under necessary conditions.

**Sample Weight Required:** 50 g

**Analytical Platform:** Cultural Method

**Special Information:** This method is for the enumeration of probiotic strains *Bifidobacterium animalis* spp *lactis*, *Lactobacillus reuteri*, *Bifidobacterium longum*.

Analyte Reported	Alias	Unit of Measure	Limit of Quantification	Reproducibility
<i>Bifidobacterium animalis</i> ssp <i>lactis</i>	<i>B. lactis</i> , <i>BL818</i> , <i>NCC2818</i>	CFU/g	< 10 CFU/g	0.050
<i>Lactobacillus reuteri</i>	<i>L. reuteri</i> , <i>NCC3025</i>	CFU/g	< 10 CFU/g	0.082
<i>Bifidobacterium longum</i>	<i>BL705</i>	CFU/g	<10	0.023