

941-0016 PI-Cassette™**10 x 10 Units**

Contents	Box with 100 PI-Cassette™ (10 bags each containing 10 PI-Cassette™).
Application	The PI-Cassette™ is part of the NucleoCounter® NC-203™ system and is used to determine total cell count and non-viable cell count in yeast samples.
Use	The PI-Cassette™ is a plastic device that combines cell sample aspiration and cell staining in a single unit. The PI-Cassette™ features a piston, a flow system with deposited Propidium Iodide (PI), and a measurement chamber. The closed cassette system ensures that the operator will not be exposed to the dye and the device can be safely disposed. The cassette is loaded by gently pressing the piston while the tip of the cassette is immersed into the cell sample. Approximately 60 µl of sample mixture is loaded into the cassette. PI is deposited as salt crystals in the first three lanes of the flow system. The dye is dissolved by the cell sample buffer mixture and will stain all non-viable cells. Total cell count is determined through brightfield. The loaded cassette is placed in the instrument immediately and the analysis is initiated. During analysis, the NucleoCounter® instrument pushes the piston further into the cylinder of the cassette to 1) mix the sample, 2) load the measurement chamber and 3) acquire fluorescent and brightfield images. Each cassette carries a dot-code, that indicates the exact volume of its counting chamber. This dot-code is read by the NucleoCounter® instrument and is used by the software to calculate the cell concentration. Caution! In order to avoid contaminating the clear window of the measurement chamber it is important not to touch the window when handling the cassettes. For a detailed procedure of the analysis refer to the User Guide for the instrument and the appropriate Application Notes. The NucleoCounter® NC-203™ system is for research use only.
Storage	Store cassettes at room temperature (< 40°C).
Stability	For sealed bags, the expiry date is shown on the bag and on the box. The PI-Cassette™ is produced 15 months before the expiration date. The cassettes expire 2 weeks after opening the bag. Protect the cassettes against moisture and light.
Safety information	Each PI-Cassette™ contains approximately 2 µg of Propidium Iodide (PI) deposited in each cassette during manufacture. When the cassette is loaded with a sample mixture the reagents are dissolved in the mixture. Never attempt to unload the sample from the cassette. This action can result in the release of potentially harmful substances and biohazardous material from the sample/reagent mixture. Avoid physical contact with the cassette tip, which may be contaminated by harmful substances and biohazardous material from the sample mixture. Use gloves and suitable protective clothing as per local requirements.
Disposal	After use, the PI-Cassette™ should be disposed of in accordance with applicable National, Federal, Local and State laws and regulations. Legislation addressing waste disposal requirements may differ by country, state and/or territory. Each user must refer to laws operating in their area. In some areas, certain waste must be tracked.