# Tank Validation and Riboflavintest

Tank Validation is an effective way to perform acceptance test of new tanks - and thereby ensure that specifications are achieved.

Upon installation of the tank in the plant, Bactoforce can perform a full hygienic validation of the tank surface, including a test of the CIP installation. With more than 2000 tank inspections performed per year, Bactoforce offers a unique know-how and experience. We recognize the need to work effectively to reduce equipment downtime without comprimising safety. Our inspectors are trained in working in confined spaces and at height, and carry the right equipment to perform inspections effectively and safe.

### Advantages include:

- **Third party quality assurance - added value:**
  Performing a tank inspection upon installation of the tank is an assurance to both the tank supplier and food producer that the design and condition is according to specification. Documentation from an independent results in reduced defect rates and strenghtens the buyer/supplier relationship.
- **Cost reduction**
  Identifying defects before operation starts allows for performing repairs at much lower cost and inconvenience compared. Un-detected defects will lead to increased operating costs or risk of quality problems.
- **Quality documentation:**
  We document all inspections and make them available on-line. Easy access for internal and external audits and analysis of equipment status.

**Tank Validation and Riboflavintest**

- **Independant quality assurance**
- **Test for surface defects**
- **Validate design of CIP installation**

**TAKE A CLOSER LOOK AT YOUR PROCESS LINE**

# Procedure
## – Tank Validation and Riboflavintest

### Tank Validation & Riboflavintest

The Tank Validation Test is a factory acceptance test of new equipment, before it is handed over to the end user.

The Tank Validation is based on the combination of different non-destructove test methods and modified to inspections of large surfaces in equipment with high hygienic requirements.

The Riboflavintest is performed on-site using a water/vitamin solutions and flushing based on the pre-detemined rinsing cycle.

### Content of the Tank Validation & Riboflavintest

- Visual inspection with white light to locate mechanical defects in the equipment or instruments located in the inspected area.
- Surface crack test based on ISO 3452-1 and modifiedfor inspections of large surfaces. Riboflavintestbased on the VDMA - Riboflavin test for low-germ orsterile process technologies.
- Onsite localization of imperfections and criticalcleaning points, and visuel inspection of correctedimperfections.

# R-Force
## – Access Your Data

### Web-based reporting system

Bactoforce is using an on-line reporting system, R-Force, which allows our customers to have full access to current and historic inspection reports.

The system also gives a systematic overview of equipment, planned inspections and agreed inspection frequency.

INCLUDED

# Other Bactoforce Services

### Heat exchanger / pasteurisers

- Leakage test
- Organic residue test (TOC)
- Energy side cleaning
- Calibration
- Holding time test
- Holding tube measurement

### Tanks

- Tank integrity test
- Validation of new tanks
- Riboflavintest / Spray-Shadow Test

### Sensors

- Temperature
- Flow (on-site/off-siteinspection)
- Pressure
- Conductivity

### Pipes

- Hygiene inspection
- Welding control