Comparison and Validation of two *Salmonella* analyze rapid method in Soybean Meal

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The *Salmonella* spp. detection in feed ingredients have as objective to determinate the presence or absence in product to sanitary control, this analyze is indispensible to determinate if the product it is in accordance with the microbiological standards.  
This study had as objective the comparison and validation of two analyze rapid method to identify the *Salmonella* spp. in Soybean Meal. The method evaluated were the “Kit Rapid Select *Salmonella*” – Strip test of lateral flow and the “Kit Tecra Elisa” – *Salmonella* Visual Immunoassay. The Soybean Meal was contaminated with three *Salmonella* strains (*S. typhimurium, S. mbandaka e S. enteric*) in standard concentrations as Mac Farland scale (10^8 until 10^8 CFU/g). The contamination was confirmed by the traditional method in plates. The analysis was realized in 56 samples of Soybean Meal.  
Observed that both rapid methods detected the presence of the pathogen in 100% of samples contaminated with high concentration of *Salmonella* strains 10^8 UFC/g. The “Kit Tecra Elisa” detected the pathogen in samples with low concentration of *Salmonella* strains 10^8 UFC/g, where the *S. typhimurium* was identified in 36% of samples, *S. enteric* and *S. mbandaka* in 27% of samples. The “kit Rapid select *Salmonella*” showed better results, by this method the results to *Salmonella* presence was 82% to *S. typhimurium*, 81% to *S. enteric* and 73% to *S. mbandaka*.  
Considering this results, we concluded that to *Salmonella* detection in Soybean Meal, the “Kit Rapid select *Salmonella*” demonstrated better sensibility than the “Kit Tecra Elisa”, because some in low concentration of the contamination was possible to detect the *Salmonella* presence.