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Sampling plans for the zero-inflated Poisson distribution in the food industry

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Highlights

- RGS, MDS, DS and sequential sampling plans are proposed for the ZIP data.
- The parameter π_0 in the ZIP distribution affects the required sample size.
- The MDS plan outperforms the other plans in terms of average sample number.
- Compared to SSP, the MDS plan reduces the sample size by 23 to 52%.

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