

# Dissolution test for solid dosage forms: I do not understand how to interpret the acceptance criteria. Could you provide an example?



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## Answer:

An example is provided below for a dissolution test of a conventional-release formulation.

If the Q value was set to 75% of the label claim dissolved within a specified time, the acceptance criteria would be interpreted as follows:

At acceptance level  $S_1$ : 6 dosage units are tested and each individual dissolution result is compared to  $Q+5\%$ .

At level  $S_1$ : each value of the 6 dosage units tested has to be more than 80% of the label claim dissolved within the specified time (i.e.  $75\%+5\%=80\%$ ). If the results fulfil this requirement, the medicinal product complies with the test.

*If the results do not comply, 6 additional dosage units are tested:*

At acceptance level  $S_2$ : the average value of all 12 dosage units tested has to be equal to or greater than 75% of the label claim dissolved within the specified time and none of the values can be less than 60% ( $Q-15\%$ :  $75\%-15\%=60\%$ ). If the results fulfil this requirement, the medicinal product complies with the test at level  $S_2$ .

*If the results still do not comply, 12 additional dosage units are tested:*

At acceptance level  $S_3$ : the average value of all 24 dosage units tested has to be equal to or greater than 75% of the label claim dissolved within the specified time, no more than 2 values can be less than 60%, and no value can be less than 50%. If the results fulfil this requirement, the medicinal product complies with the test at level  $S_3$ .

*If the results still do not comply, the medicinal product has failed the test and an out-of-specification investigation must be launched.*

For more information, refer to Ph. Eur. general chapter 5.17.1.