

In Vitro Dissolution Testing for Solid Oral Dosage Forms

Introduction

Dissolution testing is a requirement for all solid oral dosage forms and is used in all phases of development for product release and stability testing¹. It is a key analytical test used for detecting physical changes in an active pharmaceutical ingredient (API) and in the formulated product.

At early stages of development, *in vitro* dissolution testing guides the optimization of drug release from formulations. Over the past 50 years, dissolution testing has also been employed as a quality control (QC) procedure, in R&D to detect the influence of critical manufacturing variables and in comparative studies for *in vitro-in vivo* correlation (IVIVC).²

The FDA guidance on dissolution testing for immediate release solid oral dosage forms¹ includes the use of the Biopharmaceutics Classification System (BCS) guidelines for biorelevant dissolution tests, which is based upon API solubility and permeability.³ According to the BCS guidelines, *in vitro* dissolution testing may be a useful tool to forecast the *in vivo* performance of drug products and potentially reduce the number of bioavailability/bioequivalence studies required. The FDA guidance on scale-up and post-approval changes (SUPAC) for immediate release oral dosage forms recommends the use of *in vitro* dissolution to justify post-approval changes.⁴

Despite being readily-entrained in pharmaceutical and biotechnology industry, the basics of the dissolution test are often misunderstood. The test must be rugged and reproducible and highlight or discriminate significant changes in product performance.

The specific dissolution technique employed is determined by the dosage form characteristics and the intended route of administration. For solid dosage forms, industry standard dissolution testing methodologies are the United States Pharmacopoeia (USP) Ap-

paratus 1 (basket) and the USP Apparatus 2 (paddle) (see Figure 1). Immediate-release, modified-release and extended release tablets are usually tested in classical dissolution baths with USP 2 paddles. Floating capsules and tablets generally use USP 1 baskets. Other dissolution techniques and equipment include USP 3 (reciprocating cylinders), USP 4 (flow-through-cell), USP 5 (paddle-over-disk), USP 6 (cylinder) and USP 7 (reciprocating holders).⁵

The development of a dissolution procedure involves selecting the dissolution media, apparatus type and hydrodynamics (agitation rate) appropriate for the product. This overview article will focus on the most commonplace (USP 1 and 2) dissolution apparatus and present an overview of typical method parameters that should be considered during dissolution development.

Dissolution

For most dosage forms to be efficacious, the API(s) must be absorbed into the systemic circulation so that it can be transported to its site of activity. This process contributes to the bioavailability of

the drug substance and involves two steps: dissolution and absorption (or permeability). Understanding the multi-step dissolution process is essential to proper *in vitro* method development. Dissolution is the process of extracting the API out of the dosage form solid-state matrix into solution within the gastrointestinal tract. Absorption is the process of transporting the drug substance from the gastrointestinal lumen into the systemic circulation.

Dissolution testing is an *in vitro* method that characterizes how an API is extracted out of a solid dosage form. It can indicate the efficiency of *in vitro* dissolution but does not provide any information on drug substance absorption. Pharmacokinetic data supplements and provides additional information regarding API absorption rate.

Selection of the appropriate *in vitro* conditions (media and hydrodynamics) that simulate the *in vivo* conditions can lead to the generation of successful IVIVC or at the very least, *in vitro-in vivo* relations (IVIVR).² Conditions that are optimal for QC purposes may not be applicable for establishing IVIVC so it may be necessary to use two dissolution tests to meet different objectives such as development needs or regulatory demands.

Dissolution Method Parameters

A logical, systematic approach taking into consideration both scientific and regulatory principles, should be followed when developing a dissolution method. Table 1 lists common parameters and conditions that are evaluated during method development.⁶

A robust dissolution method must be free of artifacts, yield low-to-moderate variability, have good profile shape and must be challenged to pick up critical quality attributes. Once the medium and apparatus are selected, the method should be further optimized for parameters such as agitation rate, ionic strength, and surfactant concentration, if applicable. The

final method should discriminate between formulations yet possess sufficient reproducibility and robustness. In terms of statistics, a relative standard deviation of <20% at early time points and <10% at later time points is common.

Typically, the percent dissolved API (up to 100%) vs. time is plotted. Dissolution profiles of dosage forms with known formulation, manufacturing or bioavailability differences can aid in identifying a discriminatory set of media/hydrodynamic conditions. Figure 2 illustrates a dissolution plot at 50 rpm (tablet with increased release variability due to a method artifact known as coning), 75 rpm (tablet showing proper release), and a mis-manufactured tablet at 75 rpm (showing slower and improper/incomplete release).

API

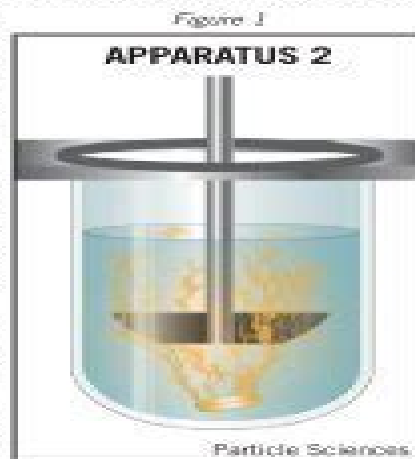
Review of API properties (BCS-classification, pK_a, stability, solubility as a function of pH/surfactant concentration, particle size, and polymorphism) that are likely to affect the *in vitro* dissolution behavior should be evaluated as part of method development.

Dosage Form

The key properties of the dosage unit, including dosage form type (tablet, capsule), expected number of potencies and desired release mechanism plus specific formulation information such as excipients, lubricants, disintegrants, moisture content, surface coating and known stability issues (cross-linking, friability) are all important factors to consider. Manufacturing variables such as lubrication blend time, compression force, excipient/API addition order, drying parameters and coating parameters are also critical to understanding API release differences between formulations.

Media

The first step is to screen formulations with aqueous-based media in the range of pH 1.2 to 6.8 at



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