

Application Note

by Distek, Inc.

In-situ UV Fiber Optic measurement
in FaSSIF and FeSSIF dissolution media
showing the various media types impact
on the release rate of a solid dosage form.

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Sponsored by



Method Conditions

Path Length: 1 mm
Wavelength: 310 nm
Unit Dosage: 125 mg
Media: FeSSIF & FaSSAF with 5% Sodium Lauryl Sulfate
Volume: 900 mL
Run Time: 3 Hours
Time Points: 25

Baseline Correction Method:
Average Over Range (375 - 390 nm)

Standard Results

	<u>NAME</u>	<u>CONCENTRATION</u> <u>(mg / mL)</u>
STD A	Classified	0.2604
STD B	Classified	0.2604
	<u>CHANNEL 3</u>	<u>CHANNEL 4</u>
ABS A:	1.2489	ABS A: 1.2305
ABS B:	1.2471	ABS B: 1.2299
RF Used:	4.7926	RF Used: 4.7243
RF Ratio:	1.0015	RF Ratio: 1.0004

% Dissolved

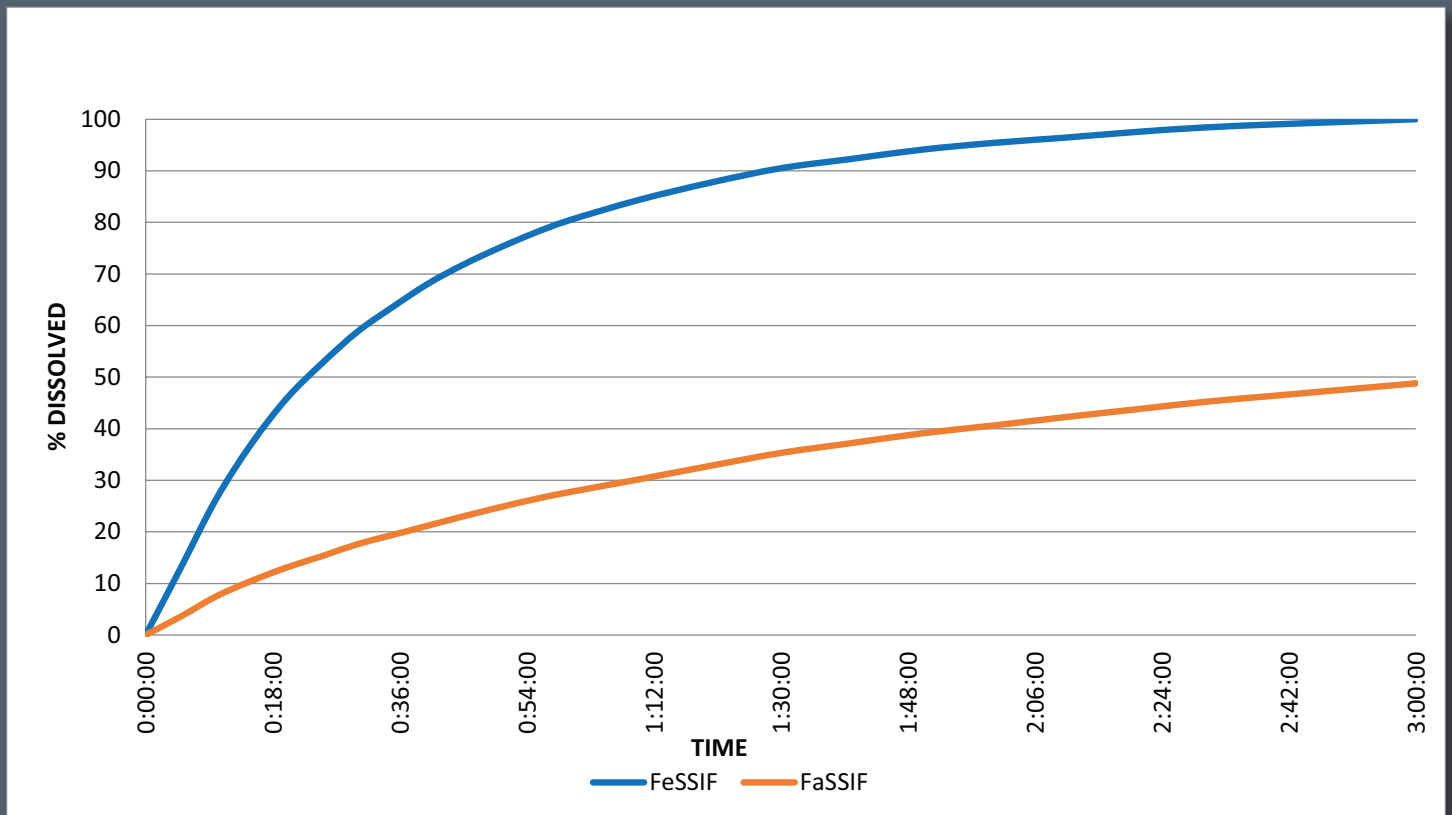


Figure 1: Dissolution results obtained by the Opt-Diss 405 for a 125 mg Tablet

Sample Absorbance Spectra

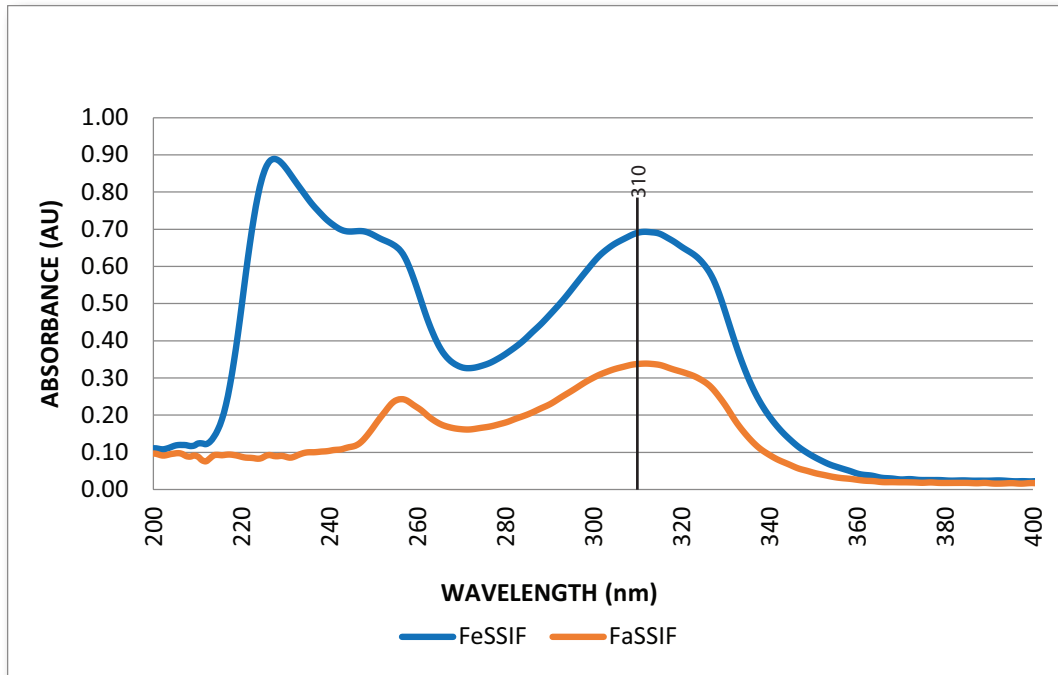


Figure 2: Sample Absorbance Spectra obtained by the Opt-Diss 405 for a 125 mg Tablet

Standard Absorbance Spectra

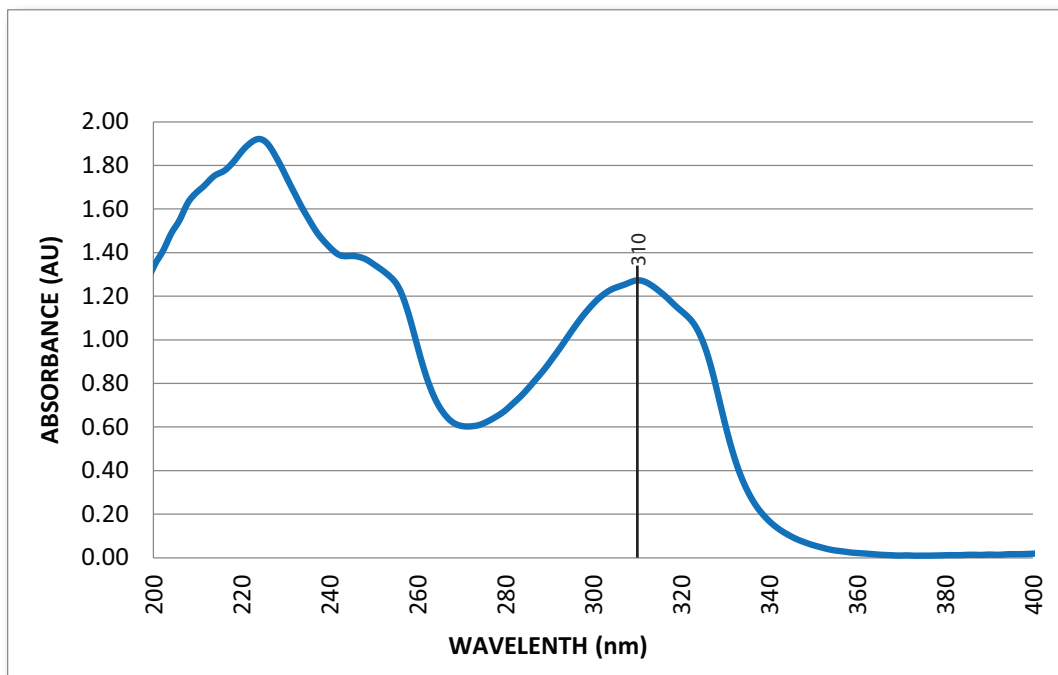


Figure 3: Standard Absorbance Spectra obtained by the Opt-Diss 405 for a 125 mg Tablet

ABOUT US

Distek, Inc. is a leading manufacturer of pharmaceutical laboratory instruments, specializing in dissolution testing products, as well as an experienced provider of validation and qualification services.

In addition, Distek provides solutions for dissolution media degassing, dispensing and disposal, in-situ fiber optic UV, bathless tablet disintegration testing, physical tablet testing, content uniformity / sample preparation, dissolution video monitoring and automated sampling.

Founded in 1976, Distek has grown to offer innovation and support to companies worldwide. Our success is dependent upon Distek's employees, who bring their expertise, experience, and dedication to providing pharmaceutical laboratory instruments and services of the finest quality. The company's commitment to excellence extends to the community, as Distek actively supports educational and research activities with donations of equipment and assistance.

For technological advancements that offer reliable and consistent performance, the pharmaceutical industry trusts Distek.

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