

EasiDiff – Workhorse Diffuse Reflectance Accessory



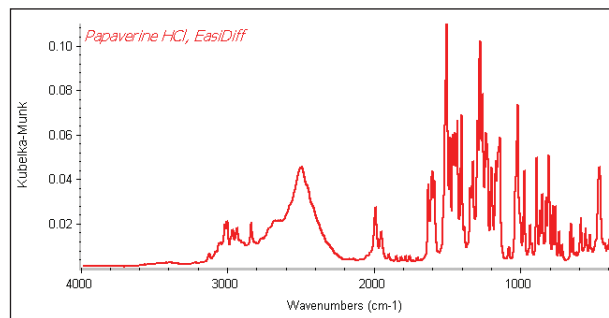
FEATURES OF THE EASIDIFF

- Pre-aligned optical components for reproducible, high quality data
- Micrometer controlled sample positioning and focusing
- High energy throughput providing nanogram sensitivity
- Precision slide for repeatable sample introduction and efficient collection of background and sample spectra
- Unique sample preparation and loading kit with two macro cups, two micro cups, spatulas, aluminum mirror and necessary tools

The PIKE Technologies EasiDiff is an economical, high quality diffuse reflectance accessory designed to analyze a wide variety of solid samples. It is most often used in the analysis of pharmaceuticals, illicit drugs, inorganic solids and minerals, and powdered chemicals. The EasiDiff reduces the time required to produce an infrared spectrum compared to KBr pellet techniques. Typically, a small amount of sample (about 1%) is mixed and ground with KBr powder and the spectrum is collected.

The EasiDiff employs an elegant, high performance optical design for maximum energy throughput and ease of operation. Optical components critical to achieving this performance are permanently aligned. Focusing is achieved by bringing the sample (not the collection mirror) to the optimum position with a micrometer. A dual position sample holder permits background and sample collection in a simple, two-step process.

A special version of the EasiDiff for NIR measurements (gold-coated optics) is also available.



A spectrum of papaverine hydrochloride (about 1% in KBr powder) was collected using the PIKE Technologies EasiDiff diffuse reflectance accessory

ORDERING INFORMATION

EasiDiff Accessory (Must Select One)

PART NUMBER	DESCRIPTION
042-10XX	EasiDiff Accessory with Sample Preparation Kit <i>Includes: Two Micro Sample Cups, Two Macro Sample Cups, EasiPrep Sample Preparation Kit, Alignment Mirror, 35 mm Mortar with Pestle and KBr Powder (100 g)</i>
042-50XX	EasiDiff Accessory, NIR Version with Gold-Coated Optics <i>Includes: Two Micro Sample Cups, Two Macro Sample Cups, EasiPrep Sample Preparation Kit, Alignment Mirror, 35 mm Mortar with Pestle and KBr Powder (100 g)</i>

Notes: Replace XX with your spectrometer model from code provided on the last page of this catalog.

EasiDiff Options

PART NUMBER	DESCRIPTION
042-3010	Abrasion Sampling Kit <i>Includes: Heavy Duty Sampling Tool and Stainless Steel Sample Support, 25 Diamond Abrasive Disks and 75 Silicon Carbide Abrasive Disks</i>

Notes: Abrasion disks are disposable with each sample analysis – order additional disks below.

Replacement Parts and Supplies

PART NUMBER	DESCRIPTION
042-2010	Small Sample Cup (micro: 6.0 mm diameter, 1.6 mm deep), 2 per package
042-2020	Large Sample Cup (macro: 10 mm diameter, 2.3 mm deep), 2 per package
042-2025	EasiDiff Sample Slide
160-8010	KBr Powder, 100 g
042-3020	Silicon Carbide Abrasive Disks (Pack of 100)
042-3025	Diamond Abrasive Disks (Pack of 50)
042-3030	Sample Cup Holder and Base
042-3040	Sample Preparation Kit
042-3080	Alignment Mirror
042-3082	Alignment Mirror, Gold
042-3060	Flat Sample Post

Notes: Please contact PIKE Technologies for items not described in this list.