

# E.Z.N.A.<sup>®</sup> Food DNA Kit

Isolation of high-quality DNA from complex matrices such as processed food, chocolate, cereals, etc.

CAT NO: D4616



## Versatile

Isolates DNA from a range of food products including milk, cereal, chocolate, etc.

## GMO TESTING

Protocol to target host DNA from GMO testing



## Quality

Sequence quality DNA preparations eliminating PCR-inhibitory compounds

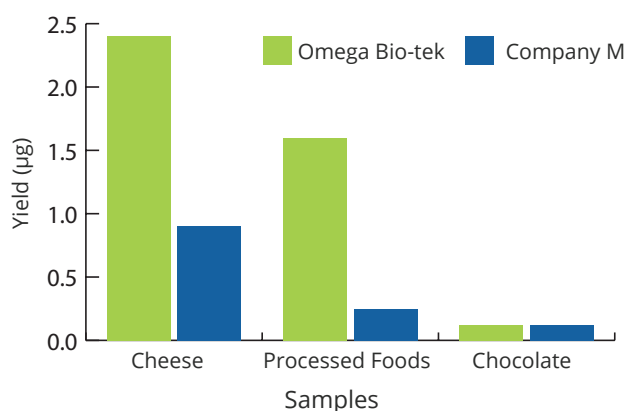


## Safe

No phenol-chloroform extractions

**E.Z.N.A.<sup>®</sup> Food DNA Kit** allows for rapid and reliable isolation of high quality DNA from complex matrices such as processed foods, chocolate, cereals, meats, etc. Specific protocols exist to target host DNA from GMO testing or bacterial DNA for pathogen/spoilage testing. Omega Bio-tek's proprietary lysis buffer system allows for efficient homogenization of samples without foaming, often seen in other lysis buffers containing detergents. The subsequent binding and washing buffers efficiently eliminate PCR-inhibiting compounds within the samples. The Omega protocol involves no organic extractions and the uniquely formulated buffer system creates optimal conditions for DNA to bind to the HiBind<sup>®</sup> silica matrix of the spin columns, resulting in higher yields.

The extracted DNA is suitable for a variety of downstream applications such as qPCR, next-generation sequencing, etc. for a variety of testing scenarios like genetically modified organism (GMO) screening, pathogen detection, microbial contamination detection, species identification in meat products, etc.

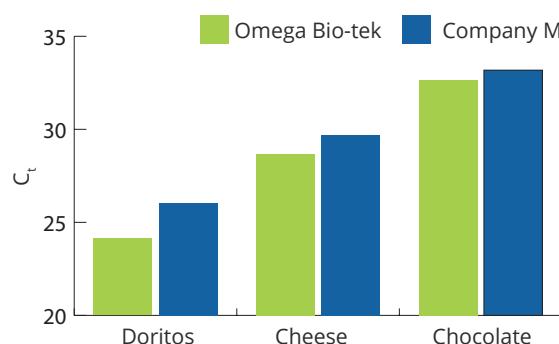


### DNA Yield Comparison

**Figure 1.** DNA was extracted from approximately 200 mg samples according to manufacturer's recommended protocols and eluted in 100  $\mu$ L. DNA yield was determined via fluorescence-based nucleic acid quantification.

### qPCR Comparison

**Figure 2.** DNA was extracted from 200 mg samples as per manufacturer's recommended protocols and eluted in 100  $\mu$ L. A 20  $\mu$ L SYBR<sup>®</sup> Green real-time PCR was performed in triplicate using 2  $\mu$ L eluate as the template.



Product Description	Preps	Cat No.
E.Z.N.A. <sup>®</sup> Food DNA Kit	5	D4616-00
	50	D4616-01

For free samples of any of our kits, visit [www.omegabiotek.com](http://www.omegabiotek.com)