

Speedy Prep<sup>®</sup>-Myco 5

## Clean-up Column for Deoxynivalenol (DON)

Order code: YRCC3005C

## Introduction

This product is used for the pre-processing of quantitative detection of deoxynivalenol in cereals, beans, and feed raw materials. It is composed of multiple adsorption materials which can quickly and selectively adsorb impurities such as pigments, lipids, and organic acids in the sample without adsorbing the targets. No need for activation, adsorption, elution, and other steps, it can complete purification in 30 sec.

## Application

Cereals (rice, corn, wheat, barley, flour, etc.), beans (yellow beans, green beans, etc.), and feed raw materials (DDGS, etc.)

## Performance Information

Recovery:  $\geq 80\%$

Variability:  $RSD \leq 10\%$

## Storage and Shelf Life

Storage: Store at 18-25°C. Do not freeze. Keep away from direct sunlight, moisture and heat.

Shelf Life: 24 months.

## Components (25 pcs/Kit)

1. 25 pcs Clean-up Columns
2. 25 pcs Centrifuge tubes (15 mL)
3. 1 instruction manual

**【Note: Bring your own 84% acetonitrile-water solution】**

## Sample Preparation

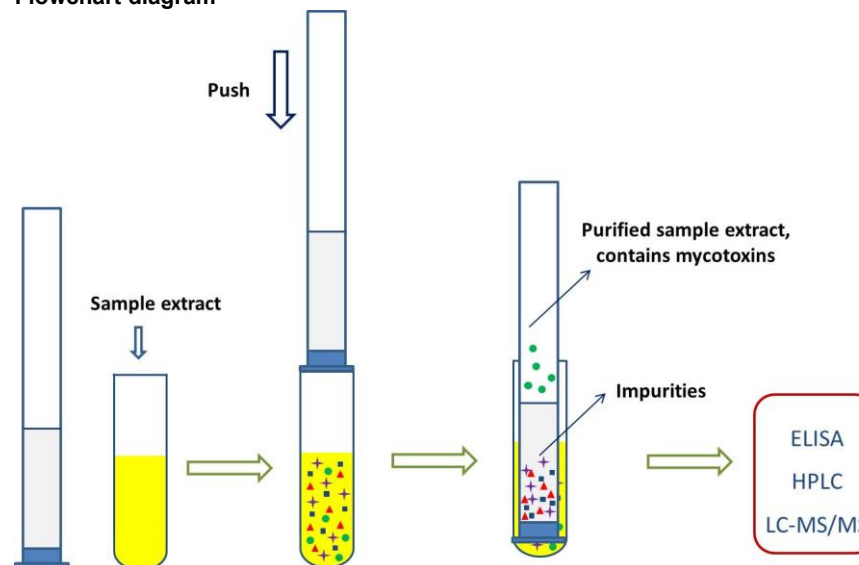
1. Weigh 5 g of the homogeneous milled sample (the solid sample needs to be crushed and passed through the 1 mm aperture sample sieve). Add 20 mL of 84% acetonitrile-water solution and mix well.
2. Vortex at high speed for 3 min to mix thoroughly.
3. Centrifuge at 4000 rpm for 2 min to obtain the supernatant. The supernatant is the sample extract.

## Sample Purification

1. Add 5 mL of the sample extract into a 15 mL centrifuge tube.

2. Insert the rubber head of the clean-up column from the top of the centrifuge tube, and press the clean-up column down to the bottom of the centrifuge tube.
3. Pour the purified sample extract at the upper part of the clean-up column into a sample bottle or sample tube.
4. Dilute the purified sample extract with the initial mobile phase, then pass through a 0.22  $\mu\text{m}$  filter membrane, and analyze it with the instrument.

## Flowchart diagram



## Precautions

1. It's strongly recommended to read the instruction manual carefully before the operation, familiarize yourself with each step, and use this product in strict accordance with the requirements of this manual. Do not use it for any purpose not mentioned in the instruction manual.
2. Wear protective clothing, protective goggles, and gloves during operation, and avoid spilling liquid.
3. During transportation, the clean-up column tube may be broken. If it happens, do not use them.
4. This product is disposable. Please avoid reuse.

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