

## 24-Well Multi-Functional Purification Plates



### Features

- High throughput: process 24 samples in one time, suitable for automated sample preparation workstations.
- High recovery rate: good purification effect, no background interference, high recoveries
- Good stability: reduce experimental errors, highly reproducible experimental data.
- Simple and fast: the purification can be finished within 30 seconds.
- Achieve selective adsorption of impurities such as pigments, lipids, and proteins in sample.

### Procedures

#### 24-Well HLB Lim Plates



1. Pipette the sample supernatant to a 24-Well Multi-Functional Purification Plates.



2. Filter with Positive Pressure 24 Processor.



3. Concentrate by 24-Well Plate Intelligent Nitrogen Evaporator



4. Filter by Syringe Filter and Sample Vials.



5. Liquid chromatography mass spectrometry analysis.

## 24-Well Multi-Functional Purification Plates

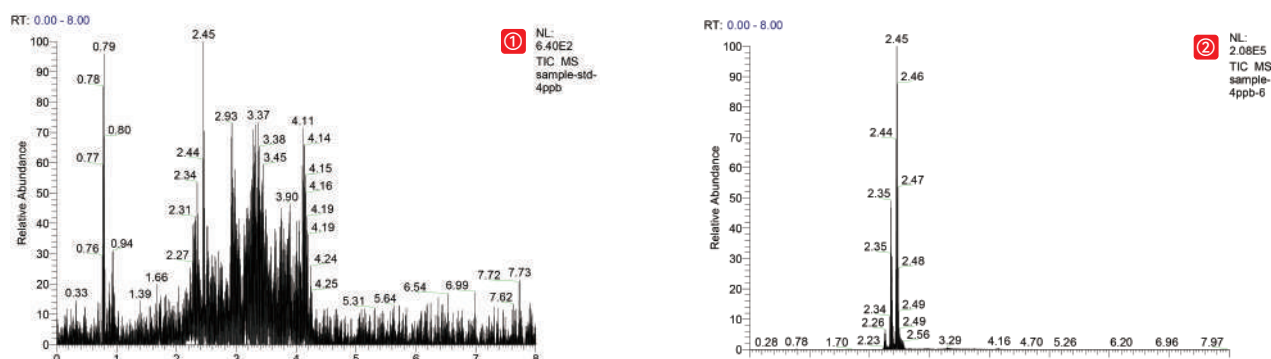


Figure 1 TIC Chromatograms of Corn Flour Sample  
( ① Before Purification ② After Purification by 226 Multifunctional Clean-Up Plate)

Test	Spike (ng/g)	226 Multifunctional Clean-Up Plate	
		Recovery (%, n=24)	CV (%)
AFT B1	0.5	105	3.92
	1	101	2.41
AFT B2	0.5	102	4.12
	1	95.8	4.15
AFT G1	0.5	105	2.69
	1	104	4.13
AFT G2	0.5	101	4.28
	1	95.4	3.75

Based on Figure 1, the impurities are obviously adsorbed, therefore miscellaneous peaks are fewer in the TIC chromatogram. As result, the purified sample is cleaner, and the purification effect is better.

Based on Table 1, the recovery rates of aflatoxin in the 24 wells are between 90-110%, and the CV value of the recovery rate between wells is less than 5%, which meet the standard of experimental requirements.

### Conclusion

According to the results, the 24-Well Multi-Functional Purification Plates are more stable. The miscellaneous peaks are less on the chromatogram, and no interfering peaks next to the target peaks result in more accurate quantification.

### Ordering information

Product Code	Description	Application	Qty.
CUCMFP1819A	228 Multifunctional Clean-Up Plate	Patulin, Aflatoxin B1, B2, G1, G2	1 Pc/Box
CUCMFP1820A	226 Multifunctional Clean-Up Plate	Zearalenone, Alatoxin B1, B2, G1, G2	1 Pc/Box
CUCMFP1821A	224 Multifunctional Clean-Up Plate	Zearalenone	1 Pc/Box
CUCMFP1823A	223 Multifunctional Clean-Up Plate	Aflatoxin M1, M2	1 Pc/Box
CUCMFP1824A	230 Multifunctional Clean-Up Plate	Deoxynivalenol	1 Pc/Box
CUCMFP1818A	229 Multifunctional Clean-Up Plate	Ochratoxin	1 Pc/Box
CUCMFP1822A	302 Multifunctional Clean-Up Plate	Multiple functions	1 Pc/Box
CHREQU2402EA	Positive Pressure 24 Processor		1 Set/Ctn
CHREQU24YYEA	24-Well Plate Intelligent Nitrogen Evaporator		1 Set/Ctn