

**CHROMABOND® QuEChERS extraction buffer mixes / clean-up mixes****QuEChERS method and pre-mixes**

Within a few years after its development by Anastassiades et al. the QuEChERS method has gained a leading position for determination of pesticide residues in food by GC-MS or LC-MS allowing rapid and cheap clean-up of strong matrix-contaminated samples.

**Standard clean-up of food samples**

10 g sample are homogenised with 10 ml acetonitrile. After adding the internal standard the sample is shaken with 4 g MgSO<sub>4</sub> and 1 g NaCl and afterwards centrifuged. 1 ml of the supernatant is spiked with 25 mg CHROMABOND® Diamino and 150 mg MgSO<sub>4</sub> and shaken again. After centrifugation the supernatant is injected into the GC/MS.

**Extraction mixtures for sample preparation for determination of pesticides in food samples.**

MACHEREY-NAGEL offers a number of individually weighed and pre-mixed buffers and extraction mixtures, specially composed for different sample matrices.

Mix I and Mix II are extraction mixtures, Mix III to Mix VI are clean-up mixtures.

The food samples will be extracted with either Mix I or Mix II.

Afterwards they will be purified with one of the following mixtures:

- Mix III (samples with low fat content; e.g. apples, strawberries),
- Mix IV (moderate content of chlorophyll and carotenoids; e. g. carrots, lettuce),
- Mix V (high content of chlorophyll and carotenoids; e. g. bell peppers, spinach),
- Mix VI (high fat content; e. g. avocados).

**Every mix is prepacked in a 15 ml centrifuge tube. Pack of 50 pieces.**



Code	Description	Packaging
LLG04003826	CHROMABOND® QuEChERS extraction buffer mixes / clean-up mixes, Mix III Diamino Clean-up Mix, 15 ml, Composition 0.15g CHROMABOND® Diamino with 0.9g MgSO4	1 pz
LLG04003827	CHROMABOND® QuEChERS extraction buffer mixes / clean-up mixes, Mix IV Diamino/Carbon Clean-up Mix, 15 ml, Composition 0.15g CHROMABOND® Diamino with 0.9g MgSO4 and 15mg Carbon	1 pz
LLG04003828	CHROMABOND® QuEChERS extraction buffer mixes / clean-up mixes, Mix VI Diamino/C18 ec Clean-up Mix, 15 ml, Composition 0.15g CHROMABOND® Diamino with 0.9g MgSO4 and 150mg C18 ec	1 pz
LLG04003829	CHROMABOND® QuEChERS extraction buffer mixes / clean-up mixes, Mix V Diamino/Carbon Clean-up Mix, 15 ml, Composition 0.15g CHROMABOND® Diamino with 0.9g MgSO4 and 45mg Carbon	1 pz



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