



INSTITUTE OF NUTRITION, MAHIDOL UNIVERSITY

Analytical Services Pricelist

Important note: Discount of 5% will be offered for customer when service cost has over \$3,000 USD.

4. ADDITIVES AND CHEMICAL CONTAMINANTS

Analysis	Methods	Test duration (days)	Service cost (\$USD)
4.1 Preservatives			
Benzoic acid	HPLC	15	40
Sorbic acid	HPLC	15	40
Benzoic acid and sorbic acid	HPLC	15	60
Saccharin	HPLC	15	40
4.2 Food additives			
Nitrate and nitrite	ISO 3091: Colorimetric	15	40
Nitrite	ISO 2918: Colorimetric	15	28
Borax	Semi-quantitative	15	20
Salicylic acid	Colorimetric	15	22
Caffeine	HPLC	15	40
Free Glutamic acid	HPLC	15	48
4.3 Heavy metal			
Lead	Graphite furnace AAS	15	40
Cadmium	Graphite furnace AAS	15	36
Lead and Cadmium	Graphite furnace AAS	15	60
4.4 Food color			
Synthetic food color	Quantitative: Paper chromatography	15	34
4.5 Water			
Hardness	TISI 257: Titration	15	20
Nitrate and nitrite	ISO 3091: Colorimetric	15	26
Nitrite	ISO 2918: Colorimetric	15	20
Chloride	TISI 257: Titration	15	20
Sulfate	TISI 257: Titration		20
Lead	Graphite furnace AAS	15	28
Cadmium	Graphite furnace AAS	15	28
Lead and cadmium	Graphite furnace AAS	15	40
Color	TISI 257: visual inspection	15	8



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Analysis	Methods	Test duration (days)	Service cost per sample (\$USD)
4.6 Isothiocyanates in cruciferous vegetables and products			
Total isothiocyanate ¹ (1 – 4 samples)	Cyclocondensation and HPLC	7	315
Total isothiocyanate ¹ (5 – 9 samples)	Cyclocondensation and HPLC	7	79
Total isothiocyanate ¹ (10 - 29 samples)	Cyclocondensation and HPLC	7	47
Total isothiocyanate ¹ (30 - 100 samples)	Cyclocondensation and HPLC	10	24
Sulforaphane ² (1 - 4 samples)	LC/MS-MS	7	323
Sulforaphane ² (5 - 9 samples)	LC/MS-MS	7	110
Sulforaphane ² (10 - 29 samples)	LC/MS-MS	7	91
Sulforaphane ² (30 - 100 samples)	LC/MS-MS	10	39
PEITC or BITC ² (1 - 4 samples)	Ammonia derivatization and LC/MS-MS	7	355
PEITC or BITC ² (5 - 9 samples)	Ammonia derivatization and LC/MS-MS	7	118
PEITC or BITC ² (10 - 29 samples)	Ammonia derivatization and LC/MS-MS	7	98
PEITC or BITC ² (30 - 100 samples)	Ammonia derivatization and LC/MS-MS	10	47
4.7 Hesperidin in products from citrus fruits			
Hesperidin ³ (1 - 4 samples)	LC/MS-MS	7	355
Hesperidin ³ (4 - 9 samples)	LC/MS-MS	7	118
Hesperidin ³ (10 - 29 samples)	LC/MS-MS	7	91
Hesperidin ³ (30 - 100 samples)	LC/MS-MS	10	71

Note: ¹ Applicable only for jelly or vegetable powder samples. For other types of samples, additional charges for sample preparation and method validation may be applied beyond this rate

² Applicable only for vegetable powder, fresh vegetables, sauces, or fat-free liquid samples. For other types of samples, additional charges for sample preparation and method validation may be applied beyond this rate.

³ Applicable only for liquid samples. For other types of samples, additional charges for sample preparation and method validation may be applied beyond this rate.

Note: - This pricelist can be changed without prior notification.

จัดทำ: วิมลรัตน์ มีทวี	ทบทวน: ศุจินตรา สมประชา	อนุมัติ: ครรชิต จุดประสงค์	วันที่ออกใช้: 2 ธันวาคม 2568
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- Fees of shipping and transfer payment are not included in this analytical service.

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