



QPP-Lab[®]

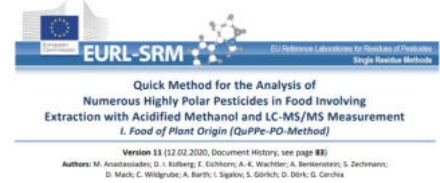
QUICK POLAR PESTICIDES METHOD

Quick Polar Pesticides Method

Il metodo **QuPpe** consente l'analisi dei residui di pesticidi molto polari, non adatti al metodo QuEChERS, sia negli alimenti di origine vegetale **PO** (frutta, ortaggi, cereali e prodotti trasformati), sia negli alimenti di origine animale **AO** (latte e uova).

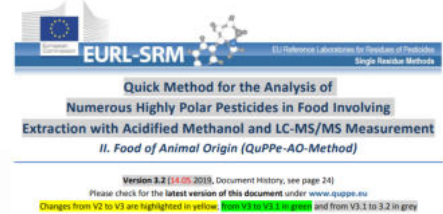
Il nuovo kit progettato per l'applicazione del metodo **QuPpe-PO** comprende:

- Analoghi isotopicamente marcati come standards interni (ISTDs);
- Miscele standard di pesticidi polari.



Il nuovo kit progettato per l'applicazione del metodo **QuPpe-AO** comprende:

- Tubi da centrifuga contenenti ODS (octadecilsilano) come adsorbente;
- Analoghi isotopicamente marcati come standards interni (ISTDs);
- Miscele standard di pesticidi polari.



Ready to use Standards:
manipolazione ed impiego più sicuri

Economicamente vantaggiosi:
consegna periodica di lotti sempre freschi

Quantificazione più accurata:
analoghi isotopicamente marcati

Valutazione dei fenomeni di interazione con i contenitori

PRODOTTI DI ORIGINE VEGETALE

Pesare una quantità rappresentativa di campione omogeneizzato in un tubo da centrifuga di 50 ml

Frutta fresca, verdura e succhi di frutta: 10 g ± 0,1 g
Frutta secca e funghi secchi: 5 g ± 0,05 g oppure 13,5 g ± 0,1 g di campione reidratato ed omogeneizzato (corrispondente a 5 g di campione secco)
Cereali, legumi secchi e miele: 5 g ± 0,05 g

Aggiungere acqua fino ad un contenuto totale di circa 10 g a seconda della natura della matrice (Tabella 19)

Aggiungere 10 ml di metanolo acidificato (CH₃OH + 1% F.A.) e 50 µl di IS (IS-working solution I) contenente gli analoghi isotopicamente marcati di uno o più analiti d'interesse

Agitare vigorosamente mediante un agitatore meccanico tipo Vortex (Prodotti freschi: 5-15 min; Prodotti secchi: 15-30 min) oppure, in alternativa, agitare manualmente per 1 min quindi, nel solo caso di prodotti secchi, agitare per un altro minuto dopo un "soaking period" di 15-30 min

Per determinare il Paraquat ed il Diquat dopo la prima agitazione manuale della durata di 1 min, effettuare un trattamento termico di 15 min in un bagno ad acqua a 80°C. In seguito, agitare nuovamente per 1 min e condizionare il campione a temperatura ambiente

Centrifugare per 5 min a 4000 rpm

Filtrare un'aliquota (3 ml) di estratto in un contenitore di stoccaggio richiudibile

Usare contenitori in plastica nel caso di pesticidi (Paraquat, Diquat, Streptomycin, Glyphosate, etc.) che tendono ad interagire con le superfici dei contenitori in vetro

Trasferire una o più aliquote (1 ml) di estratto filtrato in vials per analisi LC

PRODOTTI DI ORIGINE ANIMALE

Pesare una quantità rappresentativa di campione omogeneizzato in un tubo da centrifuga di 50 ml

Latte fresco e uova fresche: 10 g ± 0,05 g

Aggiungere acqua fino ad un contenuto totale di circa 10 g. Aggiungere 1,2 g di acqua nel caso di latte vaccino (88% H₂O) e 2,4 g di acqua nel caso di uova di pollo (76% H₂O)

Aggiungere 10 ml di metanolo acidificato (CH₃OH + 1% F.A.) e 50 µl di IS (IS-working solution I) contenente gli analoghi isotopicamente marcati di uno o più analiti d'interesse

Agitare vigorosamente mediante un agitatore meccanico tipo Vortex per 5-20 min oppure, in alternativa, agitare manualmente per 1 min

Centrifugare per 5 min a >3000 g

Trasferire un'aliquota (2 ml) in un tubo di 10 ml, contenente 100 mg di ODS come adsorbente (Codice: QPPAO01) e 2 ml di acetonitrile

Agitare manualmente per 1 min

Centrifugare per 5 min a >3000 g

Filtrare un'aliquota (circa 3-4 ml) di estratto purificato in un contenitore di stoccaggio richiudibile

Trasferire una o più aliquote (1 ml) di estratto filtrato in vials per analisi LC



QPP-Lab[®] STANDARD KIT 1.1

"Glyphosate & Co. AS 11"

| Analytes | CAS | Analytes | CAS | Analytes | CAS | Analytes | CAS |
|----------|------------|-------------|------------|----------|------------|----------------------|------------|
| AMPA | 1066-51-9 | Glufosinate | 51276-47-2 | HEPA | 22987-21-9 | N-Acetyl Glufosinate | 73634-73-8 |
| Ethephon | 16672-87-0 | Glyphosate | 1071-83-6 | MPPA | 15090-23-0 | | |

| Code | Type | Concentration | Solvents | Packaging |
|---------------|------------------|---------------|--|---|
| KIT4CD3L007 | Working Solution | 10 mg/l | Water/Acetonitrile (9:1) Water (+0.1% HCl 37%)/Acetonitrile (9:1) | 2 x 1,1 ml Multicomponents amber silanized ampoules and 2 x 1,1 ml Single component amber silanized ampoules |
| KIT4CD3L007-A | Stock Solution | 1000 mg/l | Water/Acetonitrile (9:1) Water (+0.1% HCl 37%)/Acetonitrile (9:1) | 7 x 1,1 ml Single component amber silanized ampoules |

QPP-Lab[®] STANDARD KIT 1.2

"Glyphosate & Co. AS 11-HC"

| Analytes | CAS | Analytes | CAS | Analytes | CAS | Analytes | CAS |
|-------------------|------------|-------------|------------|---------------|------------|----------------------|------------|
| AMPA | 1066-51-9 | Glufosinate | 51276-47-2 | MPPA | 15090-23-0 | N-Acetyl Glufosinate | 73634-73-8 |
| Ethephon | 16672-87-0 | Glyphosate | 1071-83-6 | N-Acetyl AMPA | 57637-97-5 | Phosphonic Acid | 13598-36-2 |
| Fosetyl-Aluminium | 39148-24-8 | HEPA | 22987-21-9 | | | | |

| Code | Type | Concentration | Solvents | Packaging |
|-------------|------------------|---------------|--|---|
| KIT4CE3L010 | Working Solution | 10 mg/l | Acetonitrile Water/Acetonitrile (9:1) Water (+0.1% HCl 37%)/Acetonitrile (9:1) | 3 x 1,1 ml Multicomponents amber silanized ampoules and 3 x 1,1 ml Single component amber silanized ampoules |
| KIT4CZ3L010 | Stock Solution | 100/1000 mg/l | Water Water/Acetonitrile (9:1) Water (+0.1% HCl 37%)/Acetonitrile (9:1) | 10 x 1,1 ml Single component amber silanized ampoules |

QPP-Lab[®] STANDARD KIT 1.3

"Glyphosate & Co. Hypercarb"

| Analytes | CAS | Analytes | CAS | Analytes | CAS | Analytes | CAS |
|---------------|------------|-------------------|------------|------------------|------------|----------------------|-------------|
| AMPA | 1066-51-9 | Fosetyl-Aluminium | 39148-24-8 | Maleic Hydrazide | 123-33-1 | N-Acetyl AMPA | 57637-97-5 |
| Bialaphos | 35597-43-4 | Glufosinate | 51276-47-2 | MPPA | 15090-23-0 | N-Acetyl Glufosinate | 73634-73-8 |
| Cyanuric acid | 108-80-5 | Glyphosate | 1071-83-6 | HEPA | 22987-21-9 | N-Acetyl Glyphosate | 129660-96-4 |
| Ethephon | 16672-87-0 | | | | | | |

| Code | Type | Concentration | Solvents | Packaging |
|---------------|------------------|---------------|---|---|
| KIT4BJ3L013 | Working Solution | 10 mg/l | Methanol - Water/Acetonitrile (9:1) Water (+0.1% HCl 37%)/Acetonitrile (9:1) | 5 x 1,1 ml Multicomponents amber silanized ampoules and 3 x 1,1 ml Single component amber silanized ampoules |
| KIT4BJ3L013-A | Stock Solution | 100/1000 mg/l | Methanol - Water/Acetonitrile (9:1) Water (+0.1% HCl 37%)/Acetonitrile (9:1) | 13 x 1,1 ml Single component amber silanized ampoules |

QPP-Lab[®] STANDARD KIT 1.4

"PerChloPhos"

| Analytes | CAS | Analytes | CAS | Analytes | CAS | Analytes | CAS |
|----------|------------|-------------|------------|-----------------|------------|-------------|----------|
| Bromate | 15541-45-4 | Chlorate | 14866-68-3 | Phosphonic Acid | 13598-36-2 | Thiocyanate | 302-04-5 |
| Bromide | 24959-67-9 | Perchlorate | 14797-73-0 | | | | |

| Code | Type | Concentration | Solvents | Packaging |
|-------------|------------------|---------------|---|--|
| KIT4AT3L006 | Working Solution | 10 mg/l | Acetonitrile Methanol | 6 x 1,1 ml Single component amber silanized ampoules |
| KIT4CQ3L006 | Stock Solution | 1000 mg/l | Water/Methanol (1:1) Methanol Water | 6 x 1,1 ml Single component amber silanized ampoules |



QPP-Lab[®] STANDARD KIT 1.5

"Glyphosate & Co on Trinity Q1"

| Analytes | CAS | Analytes | CAS | Analytes | CAS | Analytes | CAS |
|---------------|------------|-------------------|------------|------------------|------------|----------------------|-------------|
| AMPA | 1066-51-9 | Ethephon | 16672-87-0 | HEPA | 22987-21-9 | N-Acetyl Glufosinate | 73634-73-8 |
| Bialaphos | 35597-43-4 | Fosetyl-Aluminium | 39148-24-8 | Maleic hydrazide | 123-33-1 | N-Acetyl Glyphosate | 129660-96-4 |
| Bromide | 24959-67-9 | Glufosinate | 51276-47-2 | MPPA | 15090-23-0 | Perchlorate | 14797-73-0 |
| Chlorate | 14866-68-3 | Glyphosate | 1071-83-6 | N-Acetyl AMPA | 57637-97-5 | Phosphonic acid | 13598-36-2 |
| Cyanuric acid | 108-80-5 | | | | | | |

| Code | Type | Concentration | Solvents | Packaging |
|-------------|------------------|---------------|---|--|
| KIT4CF3L017 | Working Solution | 10 mg/l | Methanol - Acetonitrile Water/Acetonitrile (9:1) Water (+0.1% HCl 37%)/Acetonitrile (9:1) | 5 x 1,1 ml Multicomponents amber silanized ampoules and 6 x 1,1 ml Single component amber silanized ampoules |
| KIT4AC3L017 | Stock Solution | 100/1000 mg/l | Methanol - Water Water/Acetonitrile (9:1) Water (+0.1% HCl 37%)/Acetonitrile (9:1) | 17 x 1,1 ml Single component amber silanized ampoules |



QPP-Lab[®] STANDARD KIT 1.6

"Glyphosate & Co. on Torus DEA"

| Analytes | CAS | Analytes | CAS | Analytes | CAS | Analytes | CAS |
|-------------------|------------|-------------|------------|---------------|------------|----------------------|-------------|
| AMPA | 1066-51-9 | Glufosinate | 51276-47-2 | MPPA | 15090-23-0 | N-Acetyl Glufosinate | 73634-73-8 |
| Ethephon | 16672-87-0 | Glyphosate | 1071-83-6 | N-Acetyl AMPA | 57637-97-5 | N-Acetyl/glyphosate | 129660-96-4 |
| Fosetyl-Aluminium | 39148-24-8 | HEPA | 22987-21-9 | | | | |

| Code | Type | Concentration | Solvents | Packaging |
|---------------|------------------|---------------|--|--|
| KIT4CD3L010 | Working Solution | 10 mg/l | Water/Acetonitrile (9:1) Water (+0.1% HCl 37%)/Acetonitrile (9:1) | 3 x 1,1 ml Multicomponents amber silanized ampoules and 3 x 1,1 ml Single component amber silanized ampoules |
| KIT4CD3L010-A | Stock Solution | 100/1000 mg/l | Water/Acetonitrile (9:1) Water (+0.1% HCl 37%)/Acetonitrile (9:1) | 10 x 1,1 ml Single component amber silanized ampoules |



QPP-Lab[®] STANDARD KIT 1.7

"PerChloPhos on Torus DEA"

| Analytes | CAS | Analytes | CAS | Analytes | CAS | Analytes | CAS |
|----------|------------|----------|------------|-------------|------------|-----------------|------------|
| Bromide | 24959-67-9 | Chlorate | 14866-68-3 | Perchlorate | 14797-73-0 | Phosphonic Acid | 13598-36-2 |

| Code | Type | Concentration | Solvents | Packaging |
|-------------|------------------|---------------|--------------------------|--|
| KIT4AT3L004 | Working Solution | 10 mg/l | Acetonitrile Methanol | 4 x 1,1 ml Single component amber silanized ampoules |
| KIT4DI3L004 | Stock Solution | 1000 mg/l | Methanol Water | 4 x 1,1 ml Single component amber silanized ampoules |



QPP-Lab[®] STANDARD KIT 2

"Fosetyl and Maleic Hydrazide"

| Analytes | CAS | Analytes | CAS | Analytes | CAS |
|-------------------|------------|------------------|----------|-------------|------------|
| Fosetyl-Aluminium | 39148-24-8 | Maleic hydrazide | 123-33-1 | Perchlorate | 14797-73-0 |

| Code | Type | Concentration | Solvents | Packaging |
|---------------|------------------|---------------|--------------------------------------|--|
| KIT4BZ3L003 | Working Solution | 10 mg/l | Methanol Water/Acetonitrile (9:1) | 1 x 1,1 ml Multicomponents amber silanized ampoules and 1 x 1,1 ml Single component amber silanized ampoules |
| KIT4BZ3L003-A | Stock Solution | 100/1000 mg/l | Methanol Water/Acetonitrile (9:1) | 3 x 1,1 ml Single component amber silanized ampoules |



QPP-Lab[®] STANDARD KIT 3

"Amitrole & Co"

| Analytes | CAS | Analytes | CAS | Analytes | CAS | Analytes | CAS |
|--------------|------------|-------------|------------|----------|------------|--------------------|-----------|
| Amitrole | 61-82-5 | Daminozide | 1596-84-5 | ETU | 96-45-7 | PTU | 2122-19-2 |
| Chloromequat | 7003-89-6 | Difenzoquat | 49866-87-7 | Mepiquat | 15302-91-7 | Trimethylsulfonium | 676-84-6 |
| Cyromazine | 66215-27-8 | | | | | | |

| Code | Type | Concentration | Solvents | Packaging |
|-------------|------------------|---------------|--------------------------|---|
| KIT4G3L009 | Working Solution | 10 mg/l | Methanol | 1 x 1,1 ml Multicomponents amber silanized ampoules and 5 x 1,1 ml Single component amber silanized ampoules |
| KIT4AT3L009 | Stock Solution | 1000 mg/l | Methanol Acetonitrile | 9 x 1,1 ml Single component amber silanized ampoules |

QPP-Lab[®] STANDARD KIT 4.1

"Quats & Co Obelisc R"

| Analytes | CAS | Analytes | CAS | Analytes | CAS | Analytes | CAS |
|--------------|------------|-------------|------------|-----------------------|------------|--------------------|------------|
| Chloromequat | 7003-89-6 | Difenzoquat | 49866-87-7 | Mepiquat | 15302-91-7 | Paraquat | 4685-14-7 |
| Cyromazine | 66215-27-8 | Diquat | 2764-72-9 | Nereistoxin | 1631-58-9 | Propamocarb | 24579-73-5 |
| Daminozide | 1596-84-5 | Melamine | 108-78-1 | N,N-Dimethylhydrazine | 57-14-7 | Trimethylsulfonium | 676-84-6 |

| Code | Type | Concentration | Solvents | Packaging |
|-------------|------------------|---------------|---|---|
| KIT4BZ3L012 | Working Solution | 10 mg/l | Methanol Water/Acetonitrile (9:1) | 3 x 1,1 ml Multicomponents amber silanized ampoules and 2 x 1,1 ml Single component amber silanized ampoules |
| KIT4BY3L012 | Stock Solution | 1000 mg/l | Methanol - Acetonitrile Water/Acetonitrile (9:1) Methanol/Water (3:1) | 12 x 1,1 ml Single component amber silanized ampoules |

QPP-Lab[®] STANDARD KIT 4.2

"Quats & Co BEH Amide"

| Analytes | CAS | Analytes | CAS | Analytes | CAS | Analytes | CAS |
|-----------------------|-------------|------------------|------------|-------------|------------|-----------------------------|--------------|
| Aminocyclopyrachlor | 858956-08-8 | Diethanolamine | 111-42-2 | Mepiquat | 15302-91-7 | Propamocarb N-oxide | 743449-09-4 |
| Amitrole | 61-82-5 | Difenzoquat | 49866-87-7 | Morpholine | 110-91-8 | Propamocarb-N-desmethyl HCl | 1392231-41-2 |
| Chloridazon-desphenyl | 6339-19-1 | ETU | 96-45-7 | Nereistoxin | 1631-58-9 | PTU | 2122-19-2 |
| Chloromequat | 7003-89-6 | Maleic hydrazide | 123-33-1 | Nicotine | 54-11-5 | Triethanolamine | 102-71-6 |
| Cyromazine | 66215-27-8 | Matrine | 519-02-8 | Oxymatrine | 16837-52-8 | Trimethylsulfonium | 676-84-6 |
| Daminozide | 1596-84-5 | Melamine | 108-78-1 | Propamocarb | 24579-73-5 | | |

| Code | Type | Concentration | Solvents | Packaging |
|---------------|------------------|---------------|--|--|
| KIT4DA3L023 | Working Solution | 10 mg/l | Methanol Acetonitrile Water/Acetonitrile (9:1) | 3 x 1,1 ml Multicomponents amber silanized ampoules and 12 x 1,1 ml Single component amber silanized ampoules |
| KIT4DA3L023-A | Stock Solution | 1000 mg/l | Methanol Acetonitrile Water/Acetonitrile (9:1) | 23 x 1,1 ml Single component amber silanized ampoules |

QPP-Lab[®] STANDARD KIT 5

"Quats & Co. MonoChrom MS"

| Analytes | CAS | Analytes | CAS | Analytes | CAS | Analytes | CAS |
|-------------|------------|----------|---------|----------|------------|----------|-----------|
| Chlormequat | 7003-89-6 | ETU | 96-45-7 | Mepiquat | 15302-91-7 | PTU | 2122-19-2 |
| Difenzoquat | 49866-87-7 | | | | | | |

| Code | Type | Concentration | Solvents | Packaging |
|-------------|------------------|---------------|--------------------------|--|
| KIT4G3L005 | Working Solution | 10 mg/l | Methanol | 5 x 1,1 ml Single component amber silanized ampoules |
| KIT4AT3L005 | Stock Solution | 1000 mg/l | Methanol Acetonitrile | 5 x 1,1 ml Single component amber silanized ampoules |



QPP-Lab[®] STANDARD KIT 6

"Streptomycin and Kasugamycin"

| Analytes | CAS | Analytes | CAS |
|-------------|-----------|--------------|---------|
| Kasugamycin | 6980-18-3 | Streptomycin | 57-92-1 |

| Code | Type | Concentration | Solvents | Packaging |
|-------------|------------------|---------------|----------------------------------|--|
| KIT4G3L002 | Working Solution | 10 mg/l | Methanol | 2 x 1,1 ml Single component amber silanized ampoules |
| KIT4DB3L005 | Stock Solution | 500/1000 mg/l | Water/Methanol (1:1) Methanol | 2 x 1,1 ml Single component amber silanized ampoules |



QPP-Lab[®] STANDARD KIT 7

"Morpholine, Diethanolamine and Triethanolamine"

| Analytes | CAS | Analytes | CAS | Analytes | CAS |
|----------------|----------|------------|----------|-----------------|----------|
| Diethanolamine | 111-42-2 | Morpholine | 110-91-8 | Triethanolamine | 102-71-6 |

| Code | Type | Concentration | Solvents | Packaging |
|-------------|------------------|---------------|--------------------------|--|
| KIT4G3L003 | Working Solution | 10 mg/l | Methanol | 3 x 1,1 ml Single component amber silanized ampoules |
| KIT4AT3L003 | Stock Solution | 1000 mg/l | Methanol Acetonitrile | 3 x 1,1 ml Single component amber silanized ampoules |

QPP-Lab[®] STANDARD KIT 8

"Triazole derivative metabolites (TDMs)"

| Analytes | CAS | Analytes | CAS | Analytes | CAS | Analytes | CAS |
|------------------|-------------|----------------------|------------|----------------------|--------------|----------------|----------|
| 1,2,4-Triazole | 288-88-0 | Triazole-acetic acid | 28711-29-7 | Triazole-lactic acid | 1450828-63-3 | 1,2,3-Triazole | 288-36-8 |
| Triazole-alanine | 114419-45-3 | | | | | | |

| Code | Type | Concentration | Solvents | Packaging |
|------------|------------------|---------------|----------|--|
| LBS3J3L355 | Working Solution | 10 mg/l | Water | 1 x 1,1 ml Multicomponents amber silanized ampoules |
| KIT4J3L005 | Stock Solution | 100mg/l | Water | 5 x 1,1 ml Single component amber silanized ampoules |

QPP-Lab[®] STANDARD KIT 9

"Difluoroacetic acid and Trifluoroacetic acid"

| Analytes | CAS | Analytes | CAS |
|---------------------|----------|----------------------|---------|
| Difluoroacetic Acid | 381-73-7 | Trifluoroacetic Acid | 76-05-1 |

| Code | Type | Concentration | Solvents | Packaging |
|---------------|------------------|---------------|---------------------------|--|
| KIT4DC3L002 | Working Solution | 10 mg/l | Acetonitrile/Water (95:5) | 2 x 1,1 ml Single component amber silanized ampoules |
| KIT4DC3L002-A | Stock Solution | 1000 mg/l | Acetonitrile/Water (95:5) | 2 x 1,1 ml Single component amber silanized ampoules |

QPP-Lab[®] MIX ED5 QS

| Analytes | CAS | Analytes | CAS | Analytes | CAS | Analytes | CAS |
|-------------------|------------|------------|-----------|---------------------|-------------|-------------|------------|
| Fosetyl-Aluminium | 39148-24-8 | Glyphosate | 1071-83-6 | N-Acetyl Glyphosate | 129660-96-4 | Perchlorate | 14797-73-0 |
| Glufosinate | 51276-47-2 | | | | | | |

| Code | Type | Concentration | Solvents | Packaging |
|--------------|------|---------------|--------------------------|--|
| CRM3AZ3L1857 | Mix | 100 mg/l | Water/Acetonitrile (9:1) | 1 x 1,1 ml Multicomponents amber silanized ampoule |

QPP-Lab® Single Solutions

| Code | Description | Concentration | Solvent | Packaging |
|--------------|----------------------------------|---------------|--|--------------------------------|
| LBS9G3L1566 | QPP-Lab® Triazole, 1,2,3- | 1000 mg/L | Methanol | 1,1 ml amber silanized ampoule |
| LBS9G3L2262 | QPP-Lab® Aminocyclopyrachlor | 1000 mg/L | Methanol | 1,1 ml amber silanized ampoule |
| CRM9G3L255 | QPP-Lab® Amitrole | 1000 mg/L | Methanol | 1 ml amber silanized ampoule |
| CRM9AZ3L1115 | QPP-Lab® Ampa | 1000 mg/L | Water/Acetonitrile (9:1) | 1,1 ml amber silanized ampoule |
| CRM9G3L1554 | QPP-Lab® Bialaphos | 1000 mg/L | Methanol | 1,1 ml amber silanized ampoule |
| CRM9AW3L2501 | QPP-Lab® Bromate | 1000 mg/L | Methanol/Water (1:1) | 1,1 ml amber silanized ampoule |
| CRM9G3L1540 | QPP-Lab® Bromide | 1000 mg/L | Methanol | 1,1 ml amber silanized ampoule |
| CRM9G3L1521 | QPP-Lab® Chlorate | 1000 mg/L | Methanol | 1,1 ml amber silanized ampoule |
| LBS9G3L1153 | QPP-Lab® Chloridazon, Desphenyl- | 1000 mg/L | Methanol | 1,1 ml amber silanized ampoule |
| CRM9G3L427 | QPP-Lab® Chlormequat | 1000 mg/L | Methanol | 1,1 ml amber silanized ampoule |
| CRM9G3L1522 | QPP-Lab® Cyanuric Acid | 1000 mg/L | Methanol | 1,1 ml amber silanized ampoule |
| CRM9G3L087 | QPP-Lab® Cyromazine | 1000 mg/L | Methanol | 1,1 ml amber silanized ampoule |
| CRM9G3L892 | QPP-Lab® Daminozide | 1000 mg/L | Methanol | 1,1 ml amber silanized ampoule |
| CRM9B3L1563 | QPP-Lab® Diethanolamine | 1000 mg/L | Acetonitrile | 1,1 ml amber silanized ampoule |
| CRM9B3L789 | QPP-Lab® Difenzoquat | 1000 mg/L | Acetonitrile | 1,1 ml amber silanized ampoule |
| CRM9DC3L2294 | QPP-Lab® Difluoroacetic Acid | 1000 mg/L | Acetonitrile/Water (95:5) | 1,1 ml amber silanized ampoule |
| CRM9AZ3L847 | QPP-Lab® Diquat | 1000 mg/L | Water/Acetonitrile (9:1) | 1,1 ml amber silanized ampoule |
| CRM9BK3L835 | QPP-Lab® Ethephon | 1000 mg/L | Water (+0.1% HCl 37%)/Acetonitrile (9:1) | 1,1 ml amber silanized ampoule |
| CRM9G3L966 | QPP-Lab® Etu | 1000 mg/L | Methanol | 1,1 ml amber silanized ampoule |
| LBS2AZ3L728 | QPP-Lab® Fosetyl-Aluminium | 100 mg/L | Water/Acetonitrile (9:1) | 1,1 ml amber silanized ampoule |
| CRM9AZ3L999 | QPP-Lab® Glufosinate | 1000 mg/L | Water/Acetonitrile (9:1) | 1,1 ml amber silanized ampoule |
| CRM9AZ3L837 | QPP-Lab® Glyphosate | 1000 mg/L | Water/Acetonitrile (9:1) | 1,1 ml amber silanized ampoule |
| CRM9AZ3L1039 | QPP-Lab® Hepa | 1000 mg/L | Water/Acetonitrile (9:1) | 1,1 ml amber silanized ampoule |
| CRM9G3L1764 | QPP-Lab® Kasugamycin | 1000 mg/L | Methanol | 1,1 ml amber silanized ampoule |
| CRM9G3L994 | QPP-Lab® Maleic Hydrazide | 1000 mg/L | Methanol | 1,1 ml amber silanized ampoule |
| CRM9G3L1399 | QPP-Lab® Matrine | 1000 mg/L | Methanol | 1,1 ml amber silanized ampoule |
| CRM9G3L1449 | QPP-Lab® Melamine | 1000 mg/L | Methanol | 1,1 ml amber silanized ampoule |
| CRM9G3L1446 | QPP-Lab® Mepiquat | 1000 mg/L | Methanol | 1,1 ml amber silanized ampoule |
| CRM9G3L1440 | QPP-Lab® Morpholine | 1000 mg/L | Methanol | 1,1 ml amber silanized ampoule |
| CRM9AZ3L1325 | QPP-Lab® Mppa | 1000 mg/L | Water/Acetonitrile (9:1) | 1,1 ml amber silanized ampoule |
| CRM9G3L1447 | QPP-Lab® Dimethylhydrazine, N,N- | 1000 mg/L | Methanol | 1,1 ml amber silanized ampoule |
| CRM9AZ3L1517 | QPP-Lab® N-Acetyl Ampa | 1000 mg/L | Water/Acetonitrile (9:1) | 1,1 ml amber silanized ampoule |
| CRM9AZ3L1255 | QPP-Lab® N-Acetyl Glufosinate | 1000 mg/L | Water/Acetonitrile (9:1) | 1,1 ml amber silanized ampoule |
| CRM9AZ3L1750 | QPP-Lab® N-Acetyl Glyphosate | 1000 mg/L | Water/Acetonitrile (9:1) | 1,1 ml amber silanized ampoule |
| CRM9AR3L1495 | QPP-Lab® Nereistoxin | 1000 mg/L | Methanol/Water (3:1) | 1,1 ml amber silanized ampoule |
| CRM9B3L1398 | QPP-Lab® Nicotine | 1000 mg/L | Acetonitrile | 1,1 ml amber silanized ampoule |
| LBS9B3L1417 | QPP-Lab® Oxymatrine | 1000 mg/L | Acetonitrile | 1,1 ml amber silanized ampoule |
| CRM9AZ3L1078 | QPP-Lab® Paraquat | 1000 mg/L | Water/Acetonitrile (9:1) | 1,1 ml amber silanized ampoule |
| CRM9G3L1519 | QPP-Lab® Perchlorate | 1000 mg/L | Methanol | 1,1 ml amber silanized ampoule |
| CRM9J3L1441 | QPP-Lab® Phosphonic Acid | 1000 mg/L | Water | 1,1 ml amber silanized ampoule |
| CRM9B3L557 | QPP-Lab® Propamocarb | 1000 mg/L | Acetonitrile | 1,1 ml amber silanized ampoule |
| LBS9G3L1903 | QPP-Lab® Propamocarb-N-Oxide | 1000 mg/L | Methanol | 1,1 ml amber silanized ampoule |
| CRM9G3L1902 | QPP-Lab® Propamocarb-N-Desmethyl | 1000 mg/L | Methanol | 1,1 ml amber silanized ampoule |
| CRM9G3L1351 | QPP-Lab® Ptu | 1000 mg/L | Methanol | 1,1 ml amber silanized ampoule |
| LBS8AW9L2022 | QPP-Lab® Streptomycin | 500 mg/L | Water/Methanol (1:1) | 1,1 ml amber silanized ampoule |
| LBS9G3L4065 | QPP-Lab® Thiocyanate | 1000 mg/L | Methanol | 1,1 ml amber silanized ampoule |
| LBS9G3L1567 | QPP-Lab® Triazolyl Acetic Acid | 1000 mg/L | Methanol | 1,1 ml amber silanized ampoule |
| LBS9AG3L1565 | QPP-Lab® Triazole Alanine | 1000 mg/L | Water/Methanol (3:1) | 1,1 ml amber silanized ampoule |
| LBS9G3L3389 | QPP-Lab® Triazole Lactic Acid | 1000 mg/L | Methanol | 1,1 ml amber silanized ampoule |
| LBS9G3L1564 | QPP-Lab® Triethanolamine | 1000 mg/L | Methanol | 1,1 ml amber silanized ampoule |
| CRM9DC3L1761 | QPP-Lab® Trifluoroacetic Acid | 1000 mg/L | Acetonitrile/Water (95:5) | 1,1 ml amber silanized ampoule |
| CRM9G3L1444 | QPP-Lab® Trimethylsulfonium | 1000 mg/L | Methanol | 1,1 ml amber silanized ampoule |
| LBS9G3L843 | QPP-Lab® Triazole, 1,2,4- | 1000 mg/L | Methanol | 1,1 ml amber silanized ampoule |

QPP-Lab® Labelled Single Solutions (ILIS)

| Code | Description | Concentration | Solvent | Packaging |
|---------------|--|---------------|--|--------------------------------|
| LBS9G3L3293 | QPP-Lab® Amitrole 15N2, 13C2 | 1000 mg/l | Methanol | 1,1 ml amber silanized ampoule |
| LBS9AZ3L1603 | QPP-Lab® AMPA-13C, 15N | 1000 mg/L | Water/Acetonitrile (9:1) | 1,1 ml amber silanized ampoule |
| LBS2J3L2010 | QPP-Lab® Chlorate-18O3 | 100 mg/L | Water | 1 ml amber silanized ampoule |
| LBS9G3L3294 | QPP-Lab® Chloridazon, Desphenyl-15N2 | 1000 mg/L | Methanol | 1,1 ml amber silanized ampoule |
| CRM9G3L1612 | QPP-Lab® Chlormequat-1,1,2,2-D4 | 1000 mg/L | Methanol | 1,1 ml amber silanized ampoule |
| LBS9G3L1609 | QPP-Lab® Cyanuric acid-13C3 | 1000 mg/L | Methanol | 1,1 ml amber silanized ampoule |
| LBS9G3L1613 | QPP-Lab® Cyromazine-D4 | 1000 mg/L | Methanol | 1,1 ml amber silanized ampoule |
| LBS9G3L2291 | QPP-Lab® Daminozide-D4 | 1000 mg/L | Methanol | 1,1 ml amber silanized ampoule |
| LBS9B3L3152 | QPP-Lab® Diethanolamine-D4 | 1000 mg/L | Acetonitrile | 1,1 ml amber silanized ampoule |
| LBS9B3L3095 | QPP-Lab® Diethanolamine-D8 | 1000 mg/L | Acetonitrile | 1,1 ml amber silanized ampoule |
| LBS9AZ3L4083 | QPP-Lab® Diquat-D8 | 1000 mg/l | Water/Acetonitrile (9:1) | 1,1 ml amber silanized ampoule |
| LBS9BK3L1600 | QPP-Lab® Ethephon-D4 | 1000 mg/L | Water (+0.1% HCl 37%)/Acetonitrile (9:1) | 1,1 ml amber silanized ampoule |
| LBS9G3L2293 | QPP-Lab® ETU-D4 | 1000 mg/L | Methanol | 1,1 ml amber silanized ampoule |
| LBS2AZ3L1607 | QPP-Lab® Fosetyl-Aluminium-D15 | 100 mg/L | Water/Acetonitrile (9:1) | 1,1 ml amber silanized ampoule |
| CRM9AZ3L1604 | QPP-Lab® Glufosinate-D3 | 1000 mg/L | Water/Acetonitrile (9:1) | 1,1 ml amber silanized ampoule |
| CRM17AZ3L1602 | QPP-Lab® Glyphosate-13C2, 15N | 200 mg/L | Water/Acetonitrile (9:1) | 1,1 ml amber silanized ampoule |
| LBS9AZ3L1601 | QPP-Lab® HEPA-D4 | 1000 mg/L | Water/Acetonitrile (9:1) | 1,1 ml amber silanized ampoule |
| CRM9G3L1608 | QPP-Lab® Maleic Hydraside-D2 | 1000 mg/L | Methanol | 1,1 ml amber silanized ampoule |
| LBS9G3L4337 | QPP-Lab® Matrine-D3 | 1000 mg/L | Methanol | 1,1 ml amber silanized ampoule |
| LBS9G3L1616 | QPP-Lab® Melamine-15N3 | 1000 mg/L | Methanol | 1,1 ml amber silanized ampoule |
| LBS9G3L1531 | QPP-Lab® Mepiquat-D3 | 1000 mg/L | Methanol | 1,1 ml amber silanized ampoule |
| LBS9G3L3094 | QPP-Lab® Morpholine-D8 | 1000 mg/L | Methanol | 1,1 ml amber silanized ampoule |
| LBS9AZ3L3439 | QPP-Lab® N-Acetyl Glufosinate-D3 | 1000 mg/L | Water/Acetonitrile (9:1) | 1,1 ml amber silanized ampoule |
| LBS9AZ3L2868 | QPP-Lab® N-Acetyl-Glyphosate-D3 | 1000 mg/L | Water/Acetonitrile (9:1) | 1,1 ml amber silanized ampoule |
| LBS9AR3L1615 | QPP-Lab® Nereistoxin-D6 | 1000 mg/L | Methanol/Water (3:1) | 1,1 ml amber silanized ampoule |
| LBS9B3L3297 | QPP-Lab® Nicotine-D4 | 1000 mg/L | Acetonitrile | 1,1 ml amber silanized ampoule |
| LBS9AZ3L3814 | QPP-Lab® MPPA-D3 | 1000 mg/L | Water/Acetonitrile (9:1) | 1,1 ml amber silanized ampoule |
| LBS9B3L4338 | QPP-Lab® Oxymatrine-D3 | 1000 mg/L | Acetonitrile | 1,1 ml amber silanized ampoule |
| CRM9AZ3L1611 | QPP-Lab® Paraquat-D6 | 1000 mg/L | Water/Acetonitrile (9:1) | 1,1 ml amber silanized ampoule |
| LBS9BW3L2472 | QPP-Lab® Phosphonic acid-18O3 | 1000 mg/L | Acetonitrile/H218O (3:2) | 1 ml amber silanized ampoule |
| LBS9B3L3296 | QPP-Lab® Propamocarb-D7 | 1000 mg/l | Acetonitrile | 1,1 ml amber silanized ampoule |
| LBS9G3L3151 | QPP-Lab® PTU-D3 | 1000 mg/l | Methanol | 1,1 ml amber silanized ampoule |
| LBS9G3L3096 | QPP-Lab® Triethanolamine-D12 | 1000 mg/l | Methanol | 1,1 ml amber silanized ampoule |
| LBS9G3L1614 | QPP-Lab® Trimethylsulfonium-D9 | 1000 mg/l | Methanol | 1,1 ml amber silanized ampoule |
| LBS9G3L4339 | QPP-Lab® Triazole-D2 | 1000 mg/l | Methanol | 1,1 ml amber silanized ampoule |
| LBS9G3L4340 | QPP-Lab® 1,2,4-Triazole Acetic Acid-D2 | 1000 mg/l | Methanol | 1,1 ml amber silanized ampoule |
| LBS9AG3L4341 | QPP-Lab® 1,2,4-Triazole Aniline-D2 | 1000 mg/l | Water/Methanol (3:1) | 1,1 ml amber silanized ampoule |
| LBS9G3L4342 | QPP-Lab® 1,2,4-Triazole Lactic Acid-D2 | 1000 mg/l | Methanol | 1,1 ml amber silanized ampoule |





Accreditations and Certifications

ISO 17034:2016
ISO/IEC 17025:2017
UNI EN ISO 14001:2015
UNI EN ISO 9001:2015

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