

# Korea Laboratory Accreditation Scheme

## 제KRMPs-015호

### 1. 화학조성

104. 고순도 표준시약

06. 고순도 유기시약

| RM 코드     | 물질명           | 인증값<br>또는<br>인증범위 | 단위 | 불확도<br>(신뢰수준 약 95 %, $k=2$ )      | 측정방법                          |
|-----------|---------------|-------------------|----|-----------------------------------|-------------------------------|
| KR-PN2542 | Pyribenzoxim  | 85 이상             | %  | (0.5 ~ 10) %<br>(약 95%, $k = 2$ ) | KEM-MB001-19,<br>KEM-PL001-19 |
| KR-PN8248 | Ethaboxam     | 85 이상             | %  | (0.5 ~ 10) %<br>(약 95%, $k = 2$ ) | KEM-MB001-19,<br>KEM-PL001-19 |
| KR-PN5830 | Cymoxanil     | 85 이상             | %  | (0.5 ~ 10) %<br>(약 95%, $k = 2$ ) | KEM-PL001-19                  |
| KR-PN3172 | Etofenprox    | 85 이상             | %  | (0.5 ~ 10) %<br>(약 95%, $k = 2$ ) | KEM-PG001-19<br>KEM-PL001-19  |
| KR-PN5869 | Flusilazole   | 85 이상             | %  | (0.5 ~ 10) %<br>(약 95%, $k = 2$ ) | KEM-EG001-19                  |
| KR-PN7273 | Hexythiazox   | 85 이상             | %  | (0.5 ~ 10) %<br>(약 95%, $k = 2$ ) | KEM-PL001-19                  |
| KR-PN9289 | Napropamide   | 85 이상             | %  | (0.5 ~ 10) %<br>(약 95%, $k = 2$ ) | KEM-EG001-19,<br>KEM-PG001-19 |
| KR-PN6031 | Propiconazole | 85 이상             | %  | (0.5 ~ 10) %<br>(약 95%, $k = 2$ ) | KEM-EG001-19,<br>KEM-PG001-19 |
| KR-PN2173 | Simetryn      | 85 이상             | %  | (0.5 ~ 10) %<br>(약 95%, $k = 2$ ) | KEM-EG001-19,<br>KEM-PG001-19 |
| KR-PN3748 | Tebuconazole  | 85 이상             | %  | (0.5 ~ 10) %<br>(약 95%, $k = 2$ ) | KEM-EG001-19,<br>KEM-PG001-19 |
| KR-PN3919 | Tebufenozide  | 85 이상             | %  | (0.5 ~ 10) %<br>(약 95%, $k = 2$ ) | KEM-PL001-19                  |
| KR-PN9172 | Thiamethoxam  | 85 이상             | %  | (0.5 ~ 10) %<br>(약 95%, $k = 2$ ) | KEM-PL001-19                  |

# Korea Laboratory Accreditation Scheme

## 105. 표준용액

### 05. 유기물분석용 표준용액

| RM 코드     | 물질명            | 인증값 또는<br>인증범위 | 단위    | 불확도<br>(신뢰수준 약 95 %, $k=2$ )       | 측정방법                          |
|-----------|----------------|----------------|-------|------------------------------------|-------------------------------|
| KR-PS2542 | Pyribenzoxim   | 9.5 ~ 2 100    | μg/mL | (0.5 ~ 10) %<br>(95%, $k = 2.45$ ) | KEM-MB001-19,<br>KEM-PL001-19 |
| KR-PS8248 | Ethaboxam      | 9.5 ~ 2 100    | μg/mL | (0.5 ~ 10) %<br>(약 95%, $k = 2$ )  | KEM-MB001-19,<br>KEM-PL001-19 |
| KR-PS3130 | Bitertanol     | 9.5 ~ 2 100    | μg/mL | (0.5 ~ 10) %<br>(약 95%, $k = 2$ )  | KEM-EG001-19                  |
| KR-PS5830 | Cymoxanil      | 9.5 ~ 2 100    | μg/mL | (0.5 ~ 10) %<br>(약 95%, $k = 2$ )  | KEM-PL001-19                  |
| KR-PS4885 | Cyprodinil     | 9.5 ~ 2 100    | μg/mL | (0.5 ~ 10) %<br>(약 95%, $k = 2$ )  | KEM-EG001-19                  |
| KR-PS4564 | Difenoconazole | 9.5 ~ 2 100    | μg/mL | (0.5 ~ 10) %<br>(약 95%, $k = 2$ )  | KEM-EG001-19                  |
| KR-PS4477 | Diuron         | 9.5 ~ 2 100    | μg/mL | (0.5 ~ 10) %<br>(약 95%, $k = 2$ )  | KEM-PL001-19                  |
| KR-PS6013 | Ethalfuralin   | 9.5 ~ 2 100    | μg/mL | (0.5 ~ 10) %<br>(95%, $k = 2.31$ ) | KEM-EG001-19<br>KEM-PG001-19  |
| KR-PS3172 | Etofenprox     | 9.5 ~ 2 100    | μg/mL | (0.5 ~ 10) %<br>(약 95%, $k = 2$ )  | KEM-PG001-19<br>KEM-PL001-19  |
| KR-PS7471 | Fentrazamide   | 9.5 ~ 2 100    | μg/mL | (0.5 ~ 10) %<br>(95%, $k = 2.45$ ) | KEM-PL001-19                  |
| KR-PS9142 | Fluopicolide   | 9.5 ~ 2 100    | μg/mL | (0.5 ~ 10) %<br>(약 95%, $k = 2$ )  | KEM-PL001-19                  |
| KR-PS5869 | Flusilazole    | 9.5 ~ 2 100    | μg/mL | (0.5 ~ 10) %<br>(약 95%, $k = 2$ )  | KEM-EG001-19                  |
| KR-PS5647 | Flutolanil     | 9.5 ~ 2 100    | μg/mL | (0.5 ~ 10) %<br>(약 95%, $k = 2$ )  | KEM-EG001-19<br>KEM-PG001-19  |
| KR-PS7273 | Hexythiazox    | 9.5 ~ 2 100    | μg/mL | (0.5 ~ 10) %<br>(약 95%, $k = 2$ )  | KEM-PL001-19                  |
| KR-PS6445 | Isopyrazam     | 9.5 ~ 2 100    | μg/mL | (0.5 ~ 10) %<br>(약 95%, $k = 2$ )  | KEM-PL001-19                  |
| KR-PS9289 | Napropamide    | 9.5 ~ 2 100    | μg/mL | (0.5 ~ 10) %<br>(약 95%, $k = 2$ )  | KEM-EG001-19<br>KEM-PG001-19  |
| KR-PS6031 | Propiconazole  | 9.5 ~ 2 100    | μg/mL | (0.5 ~ 10) %<br>(약 95%, $k = 2$ )  | KEM-EG001-19<br>KEM-PG001-19  |
| KR-PS3382 | Pyraclostrobin | 9.5 ~ 2 100    | μg/mL | (0.5 ~ 10) %<br>(95%, $k = 2.26$ ) | KEM-PL001-19                  |
| KR-PS2173 | Simetryn       | 9.5 ~ 2 100    | μg/mL | (0.5 ~ 10) %<br>(약 95%, $k = 2$ )  | KEM-EG001-19<br>KEM-PG001-19  |
| KR-PS3748 | Tebuconazole   | 9.5 ~ 2 100    | μg/mL | (0.5 ~ 10) %<br>(약 95%, $k = 2$ )  | KEM-EG001-19<br>KEM-PG001-19  |
| KR-PS3919 | Tebufenozide   | 9.5 ~ 2 100    | μg/mL | (0.5 ~ 10) %<br>(약 95%, $k = 2$ )  | KEM-PL001-19                  |
| KR-PS9172 | Thiamethoxam   | 9.5 ~ 2 100    | μg/mL | (0.5 ~ 10) %<br>(약 95%, $k = 2$ )  | KEM-PL001-19                  |

# Korea Laboratory Accreditation Scheme

## 105. 표준용액

### 06. 무기물분석용 표준용액

| RM 코드     | 물질명            | 인증값 또는<br>인증범위 | 단위    | 불확도<br>(신뢰수준 약 95 %, $k=2$ )      | 측정방법          |
|-----------|----------------|----------------|-------|-----------------------------------|---------------|
| KR-IP6286 | Aluminum(Al)   | 9.5 ~ 1 050    | μg/mL | (0.5 ~ 10) %<br>(약 95%, $k = 2$ ) | KEM-ICP001-19 |
| KR-IP5092 | Arsenic(As)    | 9.5 ~ 1 050    | μg/mL | (0.5 ~ 10) %<br>(약 95%, $k = 2$ ) | KEM-ICP001-19 |
| KR-IP9610 | Barium(Ba)     | 9.5 ~ 1 050    | μg/mL | (0.5 ~ 10) %<br>(약 95%, $k = 2$ ) | KEM-ICP001-19 |
| KR-IP9313 | Beryllium(Be)  | 9.5 ~ 1 050    | μg/mL | (0.5 ~ 10) %<br>(약 95%, $k = 2$ ) | KEM-ICP001-19 |
| KR-IP6103 | Boron(B)       | 9.5 ~ 1 050    | μg/mL | (0.5 ~ 10) %<br>(약 95%, $k = 2$ ) | KEM-ICP001-19 |
| KR-IP1117 | Cadmium(Cd)    | 9.5 ~ 1 050    | μg/mL | (0.5 ~ 10) %<br>(약 95%, $k = 2$ ) | KEM-ICP001-19 |
| KR-IP4492 | Calcium(Ca)    | 9.5 ~ 1 050    | μg/mL | (0.5 ~ 10) %<br>(약 95%, $k = 2$ ) | KEM-ICP001-19 |
| KR-IP4789 | Cerium(Ce)     | 9.5 ~ 1 050    | μg/mL | (0.5 ~ 10) %<br>(약 95%, $k = 2$ ) | KEM-ICP001-19 |
| KR-IP1633 | Chromium(Cr)   | 9.5 ~ 1 050    | μg/mL | (0.5 ~ 10) %<br>(약 95%, $k = 2$ ) | KEM-ICP001-19 |
| KR-IP3157 | Cobalt(Co)     | 9.5 ~ 1 050    | μg/mL | (0.5 ~ 10) %<br>(약 95%, $k = 2$ ) | KEM-ICP001-19 |
| KR-IP1834 | Copper(Cu)     | 9.5 ~ 1 050    | μg/mL | (0.5 ~ 10) %<br>(약 95%, $k = 2$ ) | KEM-ICP001-19 |
| KR-IP7369 | Germanium(Ge)  | 9.5 ~ 1 050    | μg/mL | (0.5 ~ 10) %<br>(약 95%, $k = 2$ ) | KEM-ICP001-19 |
| KR-IP9019 | Indium(In)     | 9.5 ~ 1 050    | μg/mL | (0.5 ~ 10) %<br>(약 95%, $k = 2$ ) | KEM-ICP001-19 |
| KR-IP1096 | Iron(Fe)       | 9.5 ~ 1 050    | μg/mL | (0.5 ~ 10) %<br>(약 95%, $k = 2$ ) | KEM-ICP001-19 |
| KR-IP4447 | Lead(Pb)       | 9.5 ~ 1 050    | μg/mL | (0.5 ~ 10) %<br>(약 95%, $k = 2$ ) | KEM-ICP001-19 |
| KR-IP3934 | Magnesium(Mg)  | 9.5 ~ 1 050    | μg/mL | (0.5 ~ 10) %<br>(약 95%, $k = 2$ ) | KEM-ICP001-19 |
| KR-IP4327 | Manganese(Mn)  | 9.5 ~ 1 050    | μg/mL | (0.5 ~ 10) %<br>(약 95%, $k = 2$ ) | KEM-ICP001-19 |
| KR-IP8305 | Molybdenum(Mo) | 9.5 ~ 1 050    | μg/mL | (0.5 ~ 10) %<br>(약 95%, $k = 2$ ) | KEM-ICP001-19 |
| KR-IP4726 | Nickel(Ni)     | 9.5 ~ 1 050    | μg/mL | (0.5 ~ 10) %<br>(약 95%, $k = 2$ ) | KEM-ICP001-19 |
| KR-IP6682 | Niobium(Nb)    | 9.5 ~ 1 050    | μg/mL | (0.5 ~ 10) %<br>(약 95%, $k = 2$ ) | KEM-ICP001-19 |
| KR-IP3340 | Phosphorus(P)  | 9.5 ~ 1 050    | μg/mL | (0.5 ~ 10) %<br>(약 95%, $k = 2$ ) | KEM-ICP001-19 |
| KR-IP3751 | Potassium(K)   | 9.5 ~ 1 050    | μg/mL | (0.5 ~ 10) %<br>(약 95%, $k = 2$ ) | KEM-ICP001-19 |

# Korea Laboratory Accreditation Scheme

| RM 코드     | 물질명                                                                                                                                                                                                                       | 인증값 또는<br>인증범위 | 단위    | 불확도<br>(신뢰수준 약 95 %, $k=2$ )      | 측정방법          |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------|-----------------------------------|---------------|
| KR-IP7990 | Selenium(Se)                                                                                                                                                                                                              | 9.5 ~ 1 050    | μg/mL | (0.5 ~ 10) %<br>(약 95%, $k = 2$ ) | KEM-ICP001-19 |
| KR-IP3418 | Silicon(Si)                                                                                                                                                                                                               | 9.5 ~ 1 050    | μg/mL | (0.5 ~ 10) %<br>(약 95%, $k = 2$ ) | KEM-ICP001-19 |
| KR-IP2809 | Sodium(Na)                                                                                                                                                                                                                | 9.5 ~ 1 050    | μg/mL | (0.5 ~ 10) %<br>(약 95%, $k = 2$ ) | KEM-ICP001-19 |
| KR-IP8767 | Tin(Sn)                                                                                                                                                                                                                   | 9.5 ~ 1 050    | μg/mL | (0.5 ~ 10) %<br>(약 95%, $k = 2$ ) | KEM-ICP001-19 |
| KR-IP4513 | Vanadium(V)                                                                                                                                                                                                               | 9.5 ~ 1 050    | μg/mL | (0.5 ~ 10) %<br>(약 95%, $k = 2$ ) | KEM-ICP001-19 |
| KR-IP2122 | Zinc(Zn)                                                                                                                                                                                                                  | 9.5 ~ 1 050    | μg/mL | (0.5 ~ 10) %<br>(약 95%, $k = 2$ ) | KEM-ICP001-19 |
| KR-IP1723 | Zirconium(Zr)                                                                                                                                                                                                             | 9.5 ~ 1 050    | μg/mL | (0.5 ~ 10) %<br>(약 95%, $k = 2$ ) | KEM-ICP001-19 |
| KR-IM8359 | Bromide(Br <sup>-</sup> ) Chloride(Cl <sup>-</sup> )<br>Fluoride(F <sup>-</sup> )<br>Nitrate(NO <sub>3</sub> <sup>3-</sup> )<br>Phosphate(PO <sub>4</sub> <sup>3-</sup> )<br>Sulfate(SO <sub>4</sub> <sup>2-</sup> ) 의 혼합 | 9.5 ~ 1 050    | μg/mL | (0.5 ~ 10) %<br>(약 95%, $k = 2$ ) | KEM-IC001-19  |
| KR-IM6145 | Calcium(Ca)<br>Magnesium(Mg)<br>Potassium(K) Sodium(Na)<br>Phosphorus(P) Silicon(Si)<br>의 혼합                                                                                                                              | 9.5 ~ 1 050    | μg/mL | (0.5 ~ 10) %<br>(약 95%, $k = 2$ ) | KEM-ICP001-19 |

| CRM 코드    | 물질명           | 인증값 또는<br>인증범위 | 단위    | 불확도<br>(신뢰수준 약 95 %, $k=2$ )      | 측정방법          |
|-----------|---------------|----------------|-------|-----------------------------------|---------------|
| KC-IP6286 | Aluminum(Al)  | 9.5 ~ 1 050    | μg/mL | (0.5 ~ 10) %<br>(약 95%, $k = 2$ ) | KEM-ICP001-19 |
| KC-IP5092 | Arsenic(As)   | 9.5 ~ 1 050    | μg/mL | (0.5 ~ 10) %<br>(약 95%, $k = 2$ ) | KEM-ICP001-19 |
| KC-IP9610 | Barium(Ba)    | 9.5 ~ 1 050    | μg/mL | (0.5 ~ 10) %<br>(약 95%, $k = 2$ ) | KEM-ICP001-19 |
| KC-IP9313 | Beryllium(Be) | 9.5 ~ 1 050    | μg/mL | (0.5 ~ 10) %<br>(약 95%, $k = 2$ ) | KEM-ICP001-19 |
| KC-IP6103 | Boron(B)      | 9.5 ~ 1 050    | μg/mL | (0.5 ~ 10) %<br>(약 95%, $k = 2$ ) | KEM-ICP001-19 |
| KC-IP1117 | Cadmium(Cd)   | 9.5 ~ 1 050    | μg/mL | (0.5 ~ 10) %<br>(약 95%, $k = 2$ ) | KEM-ICP001-19 |
| KC-IP4492 | Calcium(Ca)   | 9.5 ~ 1 050    | μg/mL | (0.5 ~ 10) %<br>(약 95%, $k = 2$ ) | KEM-ICP001-19 |
| KC-IP4789 | Cerium(Ce)    | 9.5 ~ 1 050    | μg/mL | (0.5 ~ 10) %<br>(약 95%, $k = 2$ ) | KEM-ICP001-19 |
| KC-IP1633 | Chromium(Cr)  | 9.5 ~ 1 050    | μg/mL | (0.5 ~ 10) %<br>(약 95%, $k = 2$ ) | KEM-ICP001-19 |

# Korea Laboratory Accreditation Scheme

| CRM 코드    | 물질명            | 인증값 또는<br>인증범위 | 단위    | 불확도<br>(신뢰수준 약 95 %, $k=2$ )      | 측정방법          |
|-----------|----------------|----------------|-------|-----------------------------------|---------------|
| KC-IP3157 | Cobalt(Co)     | 9.5 ~ 1 050    | μg/mL | (0.5 ~ 10) %<br>(약 95%, $k = 2$ ) | KEM-ICP001-19 |
| KC-IP1834 | Copper(Cu)     | 9.5 ~ 1 050    | μg/mL | (0.5 ~ 10) %<br>(약 95%, $k = 2$ ) | KEM-ICP001-19 |
| KC-IP7369 | Germanium(Ge)  | 9.5 ~ 1 050    | μg/mL | (0.5 ~ 10) %<br>(약 95%, $k = 2$ ) | KEM-ICP001-19 |
| KC-IP9019 | Indium(In)     | 9.5 ~ 1 050    | μg/mL | (0.5 ~ 10) %<br>(약 95%, $k = 2$ ) | KEM-ICP001-19 |
| KC-IP1096 | Iron(Fe)       | 9.5 ~ 1 050    | μg/mL | (0.5 ~ 10) %<br>(약 95%, $k = 2$ ) | KEM-ICP001-19 |
| KC-IP4447 | Lead(Pb)       | 9.5 ~ 1 050    | μg/mL | (0.5 ~ 10) %<br>(약 95%, $k = 2$ ) | KEM-ICP001-19 |
| KC-IP3934 | Magnesium(Mg)  | 9.5 ~ 1 050    | μg/mL | (0.5 ~ 10) %<br>(약 95%, $k = 2$ ) | KEM-ICP001-19 |
| KC-IP4327 | Manganese(Mn)  | 9.5 ~ 1 050    | μg/mL | (0.5 ~ 10) %<br>(약 95%, $k = 2$ ) | KEM-ICP001-19 |
| KC-IP8305 | Molybdenum(Mo) | 9.5 ~ 1 050    | μg/mL | (0.5 ~ 10) %<br>(약 95%, $k = 2$ ) | KEM-ICP001-19 |
| KC-IP4726 | Nickel(Ni)     | 9.5 ~ 1 050    | μg/mL | (0.5 ~ 10) %<br>(약 95%, $k = 2$ ) | KEM-ICP001-19 |
| KC-IP6682 | Niobium(Nb)    | 9.5 ~ 1 050    | μg/mL | (0.5 ~ 10) %<br>(약 95%, $k = 2$ ) | KEM-ICP001-19 |
| KC-IP3340 | Phosphorus(P)  | 9.5 ~ 1 050    | μg/mL | (0.5 ~ 10) %<br>(약 95%, $k = 2$ ) | KEM-ICP001-19 |
| KC-IP3751 | Potassium(K)   | 9.5 ~ 1 050    | μg/mL | (0.5 ~ 10) %<br>(약 95%, $k = 2$ ) | KEM-ICP001-19 |
| KC-IP7990 | Selenium(Se)   | 9.5 ~ 1 050    | μg/mL | (0.5 ~ 10) %<br>(약 95%, $k = 2$ ) | KEM-ICP001-19 |
| KC-IP3418 | Silicon(Si)    | 9.5 ~ 1 050    | μg/mL | (0.5 ~ 10) %<br>(약 95%, $k = 2$ ) | KEM-ICP001-19 |
| KC-IP2809 | Sodium(Na)     | 9.5 ~ 1 050    | μg/mL | (0.5 ~ 10) %<br>(약 95%, $k = 2$ ) | KEM-ICP001-19 |
| KC-IP8767 | Tin(Sn)        | 9.5 ~ 1 050    | μg/mL | (0.5 ~ 10) %<br>(약 95%, $k = 2$ ) | KEM-ICP001-19 |
| KC-IP4513 | Vanadium(V)    | 9.5 ~ 1 050    | μg/mL | (0.5 ~ 10) %<br>(약 95%, $k = 2$ ) | KEM-ICP001-19 |
| KC-IP2122 | Zinc(Zn)       | 9.5 ~ 1 050    | μg/mL | (0.5 ~ 10) %<br>(약 95%, $k = 2$ ) | KEM-ICP001-19 |
| KC-IP1723 | Zirconium(Zr)  | 9.5 ~ 1 050    | μg/mL | (0.5 ~ 10) %<br>(약 95%, $k = 2$ ) | KEM-ICP001-19 |

# Korea Laboratory Accreditation Scheme

## 108. 식품 및 농업관련 물질

### 08. 농약

| CRM 코드     | 물질명      | 인증값 또는<br>인증범위 | 단위    | 불확도<br>(신뢰수준 약 95 %, $k=2$ ) | 측정방법                                                                  |
|------------|----------|----------------|-------|------------------------------|-----------------------------------------------------------------------|
| KEM-PST-01 | Diazinon | 0.946          | mg/kg | 0.048<br>(신뢰수준 95%, $k=2$ )  | 식품의약품안전처<br>고시 제 2016-153호,<br>9.일반시험법, 4.1.2.2<br>다중농약<br>다성분분석법-제2법 |

끝.