

## PROGRAM PROFICIENCY TESTING STUDIES 2021 / 2022

### PLEASE NOTE, THE REGISTRATION WILL TAKE PLACE IN OUR COMFORTABLE ONLINE PORTAL

- If you do not have an access yet, please register as a customer first: <https://service.muva.de>
- For the efficient use of the portal, we provide **instructions** for registration, booking PTs and submission of results on our [homepage](#).
- If you would like to order a **subscription**, we kindly ask you to register your proficiency tests by the online portal once and click on the option "book as a subscription".
- Please indicate in the field „message“ when booking, if you need **additional sample materials** or for specifying the **number of panellists**. If this is unknown yet, you can send us an informal e-mail at any time before shipment of the samples.
- For an additional charge of € 9.00 you can still receive the **results report** in **paper form**. If applicable, please indicate this also in the field " message ".
- Please note that our program is now **designed for two years**. Additionally, in the future **some proficiency tests** will take place alternatingly **every two years**.
- **You can book the tests for the year 2022 from autumn 2021**. The prices are valid for the current year.
- **We reserve the right to make any changes if necessary**. In such cases we will inform you in time as a matter of course.

**Please contact us for any questions, we are glad to support you!**

**MUVA KEMPTEN GMBH –  
your accredited international provider for proficiency tests in food analysis**

| Type                  | Product                                       | EPQS | 2021 | scheduled<br>in 2022 | Parameter  | Price <sup>1)</sup> |                              |
|-----------------------|---|------|------|----------------------|--|---------------------|------------------------------|
|                       |   |      |      |                      |  | Report<br>PDF       | add.<br>result <sup>2)</sup> |
| <b>CHEMISTRY</b>      |   |      |      |                      |  |                     |                              |
| <b>MILK</b>           |   |      |      |                      |  |                     |                              |
| A                     | Milk  | 873  | Jan  | Jan                  | Fat, Dry Matter, Protein, Lactose (monohydrate), Freezing Point, Density   | 225 €               | 78 €                         |
| A                     | Milk  | 896  | May  | May                  | Fat, Dry Matter, Protein, Lactose (monohydrate), Freezing Point, Calcium   | 225 €               | 78 €                         |
| A                     | Milk  | 911  | Sep  | Sep                  | Fat, Dry Matter, Protein, Lactose (monohydrate), Freezing Point, pH Value  | 225 €               | 78 €                         |
| AL                    | Milk<br>(low in lactose/lactose free)         | 880  | Feb  | Feb                  | Lactose (monohydrate), Galactose, Glucose  | 139 €               | 49 €                         |
| K                     | Raw Milk<br>shock frozen                      | 884  | Mar  | Mar                  | Fat, Dry Matter, Protein, Lactose (monohydrate), Freezing Point, pH Value, Casein                                | 270 €               | 90 €                         |
| K                     | Raw Milk<br>shock frozen                      | 918  | Oct  | Oct                  | Fat, Dry Matter, Protein, Lactose (monohydrate), Freezing Point, pH Value, Urea                                  | 270 €               | 90 €                         |
| <b>DAIRY PRODUCTS</b> |   |      |      |                      |  |                     |                              |
| D                     | Cream   | 877  | Jan  | Jan                  | Fat, Dry Matter, Protein   | 159 €               | 55 €                         |
| D                     | Cream   | 909  | Aug  | Aug                  | Fat, Dry Matter, Protein   | 159 €               | 55 €                         |
| E                     | Evaporated milk /<br>Coffee cream             | 898  | May  | May                  | Fat, Dry Matter, Protein, Phosphorus, Ash  | 209 €               | 75 €                         |
| H                     | Butter  | 881  | Feb  | Feb                  | Water, Solid non-fat, pH Value, Cholesterol, Butyric Acid Methyl Ester, Chloride, Sodium (sodium chloride)       | 189 €               | 70 €                         |
| L                     | Yoghurt                                       | 882  | Feb  | Feb                  | Fat, Dry Matter, Protein, Total Lactic Acid, pH Value  | 199 €               | 75 €                         |
| <b>CHEESE</b>         |   |      |      |                      |  |                     |                              |
| C                     | Processed cheese                              | 885  | Mar  | Feb                  | Fat, Dry Matter, Protein, Lactose (monohydrate), pH Value, Citric Acid, Ash, Chloride, Sodium (sodium chloride)  | 265 €               | 95 €                         |
| C                     | Processed cheese                              | 908  | Aug  | Aug                  | Fat, Dry Matter, Protein, pH Value, Phosphorus, Ash, Chloride, Sodium (sodium chloride)                          | 265 €               | 95 €                         |
| F                     | Cream cheese                                  | 893  | Apr  | Apr                  | Fat, Dry Matter, Protein, Lactose (monohydrate), pH Value, Total Lactic Acid, Chloride, Sodium (sodium chloride) | 179 €               | 69 €                         |
| V                     | Cheese<br>(hard / semi-hard cheese)           | 875  | Jan  | Jan                  | Fat, Dry Matter, Protein, pH Value, Chloride, Sodium (sodium chloride)   | 190 €               | 69 €                         |
| <b>POWDER</b>         |   |      |      |                      |  |                     |                              |
| B                     | Milk powder                                   | 878  | Feb  | Jan                  | Fat, Free Fat, Dry Matter, Protein, Lactose (monohydrate), Ash   | 245 €               | 87 €                         |
| B                     | Milk powder                                   | 906  | Aug  | Aug                  | Fat, Dry Matter, Protein, Lactose (monohydrate), pH value, Ash   | 245 €               | 87 €                         |
| G                     | Whey powder                                   | 891  | Apr  | Apr                  | Fat, Dry Matter, Protein, Lactose (monohydrate), Calcium, Magnesium, Nitrate, NPN, Ash, Total Lactic Acid        | 289 €               | 115 €                        |
| P                     | Whey protein concentrate/<br>Sodium caseinate | 900  | Jun  | Jun                  | Fat, Water, Protein, Lactose (monohydrate), Ash  | 215 €               | 80 €                         |
| T                     | Carbohydrates /<br>Vitamins (in baby foods)   | /    | /    | Apr                  | Glucose, Fructose, Lactose (monohydrate), Saccharose, Vitamin A, Vitamin C, Vitamin E                            | 219 €               | 80 €                         |
| U                     | Minerals / Trace Elements<br>(in baby foods)  | 903  | Jun  | Jun                  | Sodium, Potassium, Calcium, Magnesium, Iron, Zinc, Copper, Manganese, Phosphorus, Chloride                       | 298 €               | 129 €                        |

| Type                | Product                                  | EPQS | 2021 | scheduled in 2022 | Parameter   | Price <sup>1)</sup> |                           |
|---------------------|--|------|------|-------------------|---|---------------------|---------------------------|
|                     |  |      |      |                   |   | Report PDF          | add. result <sup>2)</sup> |
| <b>OTHERS</b>       |  |      |      |                   |   |                     |                           |
| VP                  | Alkaline Phosphatase in Milk and Cheese  | 874  | Jan  | Jan               | Phosphatase Activity; qualitatively + quantitatively  | 154 €               | 50 €                      |
| AM                  | Aflatoxin M1 in Milk                     | 919  | Oct  | Oct               | Aflatoxin M1  | 160 €               | 55 €                      |
| FS                  | Fruit Juice                              | 922  | Nov  | /                 | Glucose, Fructose, Titratable Acid, Soluble Solids (°Brix), Ethanol, pH value, Patulin                              | 179 €               | 65 €                      |
| S                   | Canned Sausage                           | 901  | Jun  | /                 | Fat, Water, Protein, Hydroxyproline, Ash, Chloride, Sodium (sodium chloride)  | 179 €               | 65 €                      |
| FM                  | Fatty Acid Distribution in Milk Powder   | 921  | Oct  | Oct               | C4 to C20; (C14:1, C16:1, C18:1, C18:1-trans, C18:2, C18:2-trans, C18:3)  | 223 €               | 75 €                      |
| N                   | Chocolate / Nougat                       | 894  | Apr  | /                 | Fat, Milk Fat, Dry Matter, Protein, Lactose (monohydrate), Saccharose, Theobromine                                  | 199 €               | 70 €                      |
| HST1                | Veterinary Drugs in Milk                 | 924  | Nov  | /                 | Possible groups of substances: $\beta$ -Lactam, Tetracycline, Sulfonamide, Cephalosporine, Quinolones; quantitative | 245 €               | 89 €                      |
| HST2                | Veterinary Drugs in Milk                 | 925  | Nov  | Oct               | Possible groups of substances: $\beta$ -Lactam, Tetracycline, Sulfonamide, Cephalosporine; qualitative              | 165 €               | 59 €                      |
| <b>MICROBIOLOGY</b> |  |      |      |                   |   |                     |                           |
| OEE                 | E. coli / Enterobacteriaceae             | 923  | Nov  | Nov               | E. coli, Enterobacteriaceae in frozen Milk  | 199 € <sup>3)</sup> | 55 €                      |
| OK                  | Mesophilic, Aerobic Bacterial Count      | 905  | Jul  | Jun               | Total Bacterial Count (in Powder and freeze dried Cheese)   | 199 € <sup>3)</sup> | 55 €                      |
| OH                  | Yeasts                                   | /    | /    | Feb               | Yeasts (Capsules in Milk Products)  | 199 € <sup>3)</sup> | 55 €                      |
| OK                  | Mesophilic, Aerobic Bacterial Count      | 887  | Mar  | Mar               | Total Bacterial Count in frozen Milk  | 199 € <sup>3)</sup> | 55 €                      |
| OEC                 | E. coli / Coliforme / Enterobacteriaceae | 888  | Mar  | Mar               | E. coli, Enterobacteriaceae, Coliforme in frozen Milk   | 199 € <sup>3)</sup> | 55 €                      |
| OHS                 | Yeasts / Moulds                          | 889  | Mar  | Mar               | Yeasts, Geotrichum in frozen Milk   | 199 € <sup>3)</sup> | 55 €                      |
| OK                  | Mesophilic, Aerobic Bacterial Count      | 913  | Sep  | Sep               | Total Bacterial Count in frozen Milk  | 199 € <sup>3)</sup> | 55 €                      |
| OEC                 | E. coli / Coliforms / Enterobacteriaceae | 914  | Sep  | Sep               | E. coli, Enterobacteriaceae, Coliforms in frozen Milk   | 199 € <sup>3)</sup> | 55 €                      |
| OHS                 | Yeasts / Moulds                          | 915  | Sep  | Sep               | Yeasts, Geotrichum in frozen Milk   | 199 € <sup>3)</sup> | 55 €                      |
| OST                 | Staphylococcus                           | 916  | Sep  | Sep               | Staphylococcus in frozen Milk   | 199 € <sup>3)</sup> | 55 €                      |

**Basically, all testing samples of chemical and microbiological proficiency testing schemes are unfit for consumption!**

<sup>1)</sup> Net price plus packing and shipping costs (will be charged according to the expenses)

<sup>2)</sup> Additional double determination (results) and/or additional material

<sup>3)</sup> The basic price includes up to **9 results**, each additional result is charged separately. If you participate twice (in spring and autumn) in the same proficiency test, you will receive a 15% discount for the second participation. **All sample materials contains strains of safety group S1.**

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|---|-----------------------------------|------|------|----------------------|---|---------------------|------------------------------|
|   |                                   |      |      |                      |   | Report<br>PDF       | add.<br>result <sup>2)</sup> |
| <b>SENSORY</b>                                |                                   |      |      |                      |   |                     |                              |
| <b>TASTE –SENSORY</b>                         |                                   |      |      |                      |   |                     |                              |
| Se1   | Rank Order                        | 876  | Jan  | Jan                  | 2 Sets of Basic Taste   | 239 € <sup>5)</sup> | 92 €                         |
| Se2   | Rank Order                        | 897  | May  | May                  | 2 Sets of Basic Taste<br>(Fruit Juice / Liquid)   | 239 € <sup>5)</sup> | 92 €                         |
| Se3   | Rank Order                        | 910  | Aug  | Aug                  | 2 Sets of Basic Taste   | 239 € <sup>5)</sup> | 92 €                         |
| Se4   | Rank Order                        | 920  | Oct  | /                    | 1 Set of Flavour  | 185 € <sup>5)</sup> | 85 €                         |
| SeRF  | Rank Order in Sausage             | 895  | May  | May                  | Taste in Sausage  | 169 € <sup>5)</sup> | 79 €                         |
| SeP   | Profile Testing                   | 890  | Mar  | Mar                  | 5 Attributes  | 352 € <sup>4)</sup> | 80 €                         |
| SeV   | Packaging Material                | 917  | Sep  | Sep                  | Intensity test with triangle test for taste and odour   | 352 € <sup>4)</sup> | 105 €                        |
| SeD   | Triangle Test                     | 892  | Apr  | Apr                  | Taste   | 175 € <sup>5)</sup> | 79 €                         |
| SeDW  | Triangle Test in Sausage          | 904  | Jun  | Jun                  | Taste in Sausage  | 185 € <sup>5)</sup> | 85 €                         |
| <b>ODOUR-SENSORY</b>                          |                                   |      |      |                      |   |                     |                              |
| SeA   | Rank Order                        | /    | /    | Feb                  | Aromatic Solutions  | 169 € <sup>5)</sup> | 79 €                         |
| SeDA  | Triangle Test                     | 883  | Feb  | /                    | Aromatic Solutions  | 185 € <sup>5)</sup> | 85 €                         |
| <b>SENSORY FOUR SENSES</b>                    |                                   |      |      |                      |   |                     |                              |
| SeS   | Rank Order                        | 907  | Aug  | Aug                  | 4 Rank Order Sets<br>(haptic and visual test, taste, odour)                                   | 372 € <sup>5)</sup> | 160 €                        |
| <b>SENSORY ACCORDING TO DIN EN 22935; 1-3</b> |                                   |      |      |                      |   |                     |                              |
| SeDLG1  | Milk                              | 879  | Feb  | Jan                  | Parameter according to DIN EN ISO 22935; 1-3<br>(5-point scale)                               | 199 € <sup>5)</sup> | 80 €                         |
| SeDLG2  | Dairy Products                    | 912  | Sep  | Sep                  | Parameter according to DIN EN ISO 22935; 1-3<br>(5-point scale)                               | 199 € <sup>5)</sup> | 80 €                         |
| SeDLG3  | Powder                            | 886  | Mar  | Mar                  | Baby foods and Milk Powder<br>Parameter according to DIN EN ISO 22935; 1-3<br>(5-point scale) | 199 € <sup>5)</sup> | 80 €                         |
| <b>SENSORY FAT AND OIL</b>                    |                                   |      |      |                      |   |                     |                              |
| SeO1  | Virgin, cold pressed Rapeseed Oil | 902  | Jun  | Jun                  | Parameter according to DGF-Einheits-Methode (fat)   | 195 € <sup>5)</sup> | 65 €                         |
| SeO2  | Frying Fat                        | /    | /    | Nov                  | Parameter according to DGF-Einheits-Methode (fat)   | 195 € <sup>5)</sup> | 65 €                         |
| <b>SENSORY DRINKING WATER</b>                 |                                   |      |      |                      |   |                     |                              |
| SeTW  | Drinking Water TON / TFN          | 899  | May  | May                  | Odour Threshold Value and Flavour Threshold Value in Drinking Water acc. to DIN EN 1622       | 352 € <sup>4)</sup> | 80 €                         |

<sup>4)</sup> Basic price contains **up to 3 panellists** already, the costs for additional test persons are only charged as of the 4th test person.  
**In any case**, please state how many panellists you would like to participate with before shipment!

<sup>5)</sup> Basic price contains **one person**, any further person pay the price for additional panellists.

### **For Sensory-Proficiency Tests only:**

If already known, please indicate the number of panellists in the field "message" when booking via online-portal, at latest please tell us when the announcement is sent!

Discount for Sensory Proficiency Testing Studies:

|   |   |   |
|---|---|---|
| 3 – 5 panellists: 5% discount <sup>5)</sup> | 6 – 9 panellists: 10% discount <sup>4),5)</sup> | as of 10 panellists = 15% discount <sup>4),5)</sup> |
|---|---|---|