

# **Instruction Sheets**

QBS Soft Drinks & Fruit Juice Proficiency Testing Scheme

lgcstandards.com/AXIO

Detailed information about samples, matrices, ranges, units, etc. can be found in the QBS Scheme Description

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#### **GENERAL INFORMATION**

#### Storage after receipt

On receipt of the test material, record the date and store as appropriate

Storage temperature	Samples				
Room temperature (20±5°C)	PT-BV-515				
Refrigerated (2 to 8°C)	PT-BV-500 PT-BV-507 PT-BV-519 PT-BV-527 PT-BV-531	PT-BV-501 PT-BV-510 PT-BV-521 PT-BV-528	PT-BV-505 PT-BV-514 PT-BV-522 PT-BV-529	PT-BV-506 PT-BV-518 PT-BV-524 PT-BV-530	
Frozen (-20°C)	PT-BV-516	PT-BV-517	PT-BV-520		

#### Please note:

- Conditions for storage after receipt of the sample may differ from the conditions under which the PT sample was transported
- Stability data have shown that uncooled transport of samples intended to be stored at 2-8°C does not affect the stability of the test materials for the time of the PT round

The test material(s) should be analysed in accordance with the deadlines shown on the website: https://portal.lgcstandards.com

## Choice of method or procedure

Participants are expected to use the test method, calibration, or measurement procedure of their choice. This method should be consistent with the participant's normal procedures, for example, duplicate analysis should only be performed if that is part of the routine analytical process. Some samples may require specific preparation or analysis, if so, this is indicated in this document.

Participants may submit results for some, or all the parameters requested.

# Sample Details (Chemistry)

Chemistry test materials are presented in a ready-to-use format.

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#### Sample Details (Microbiology)

- Microbiological test materials BV500 and BV501 are provided with 10ml primary diluent and 90ml secondary diluent. When fully reconstituted, the test material represents a 'real' beverage sample, which may or may not contain the target organism(s) at a range of inoculums levels. Background flora may also be present.
- Microbiological test materials may contain high numbers of microorganisms that
  may require dilution in order to enumerate accurately. Further details on levels are
  given in the Scheme Description.

#### **Precautions**

- Microbiological test materials contain viable micro-organisms and are supplied
  on the understanding that the purchaser has suitably competent and qualified
  personnel to handle them safely. Test materials must only be opened in a
  laboratory by qualified personnel.
- Refer to the Safety Data Sheet for information on the safe handling and disposal
  of the test materials

## **Reporting Results**

- All results should be submitted using PORTAL
- Please go to <a href="https://portal.lgcstandards.com">https://portal.lgcstandards.com</a>
- Login using your Lab ID, username, and password.
- A PORTAL user guide can be downloaded from the help section.

If you need any help at all, please do not hesitate to contact our support team using the details below or your local LGC representative.

**Tel:** +44(0)161 762 2500 **Email:** axiopt@lgcgroup.com

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Protocol BM1V1L1D Sample codes:

PT-BV-500 PT-BV-501

Description:

90ml simulated fruit juice or soft drink + 10ml primary diluent + vial



Step 1

Aseptically remove the cap and rubber stopper from the vial and reconstitute the freeze-dried test material by adding the 10ml primary diluent provided



Step 2

Replace the stopper and shake to dissolve, then leave the test material to resuscitate



Step 3

Add this concentrate to the 90ml simulated fruit juice. Rinse the vial two or three times to ensure all test material is transferred from the vial



Step 4

Immediately before testing, mix the sample thoroughly



This step now represents an undiluted sample

**Step 5**Proceed with your routine testing



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Protocol

Sample codes:

undiluted product

# OBS - Soft Drinks & Fruit Juice **Proficiency Testing Scheme**

Description:

Protocol BM1V	PT-BV-505 PT-BV-506		10ml glass vial containing lyophilise pellet	d
Step 1 Prepare 1L sterile deionised water to use as a diluent	1L	Step 2 Aseptically remove cap and rubber bungstopper from the vial and reconstitute the freeze-dried test material by adding a small quantity (approximately 10ml) of the diluent prepared in Step 1		10ml
Step 3 Replace the vial stopper and mix/ shake to dissolve	21.0	Step 4 Add this concentrate to the remaining diluent. Rinse the vial out 2 or 3 times to ensure all freeze-dried test material is transferred from the vial		
Step 5 Gently mix sample, then allow to resuscitate before proceeding	15 45 min resuscritation  This now represents	Step 6 Filter 100ml alid the target parar methods and vo used and result accordingly)	olumes may be	

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Protocol BM1V1L Sample codes:

PT-BV-507

Description:

100ml simulated fruit juice + vial





Step 1

Aseptically remove the cap and rubber stopper from the vial and reconstitute the test material by adding 10ml of the simulated fruit juice provided



Step 2

Replace the stopper and shake to dissolve



Step 3

Add this concentrate to the remaining 90ml simulated fruit juice. Rinse the vial two or three times to ensure all test material is transferred from the vial



Step 4

Leave to stand 15 to 45 minutes. Immediately before testing, mix the sample thoroughly



This now represents undiluted product

**Step 5**Proceed with your routine testing



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Protocol BC-BV1 Sample codes:

PT-BV-510 PT-BV-514 PT-BV-515
PT-BV-518 PT-BV-520

PT-BV-521 PT-BV-522 PT-BV-524

PT-BV-527 PT-BV-528 PT-BV-529

PT-BV-531

Description:

Various volumes supplied in bottle(s) or can(s)



Step 1

Analyse the test materials with the routine methods used by your laboratory



Note (reporting):

For **Conductivity in PT-BV-524**, both mS/cm and µS/cm (at both 20 and 25°C) are available to participants as reporting units. However, results will be reported back to participants in µS/cm (at 20°C)

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Protocol BC-BV2A Sample codes:

PT-BV-516

Description:

2 x plastic bottle



Step 1

Remove the bottles from the freezer and leave at room temperature until completely defrosted



Step 2

Analyse the test materials with the routine methods used by your laboratory



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Protocol BC-BV2B Sample codes:

PT-BV-517

Description:

2 x plastic bottle



# Odd round numbers (ending with 1, 3, 5, 7 or 9)

#### Step 1

Remove the bottles from the freezer and leave at room temperature until completely defrosted



#### Step 2

Analyse the test materials with the routine methods used by your laboratory



# Even round numbers (ending with 0, 2, 4, 6 or 8)

#### Step 1

Remove the bottles from the freezer and leave at room temperature until completely defrosted



#### Step 2

Dilute each test material separately by a factor of 5 (e.g. 50ml test material and 200ml deionised water)





## Step 3

Analyse the diluted test materials with the routine methods used by your laboratory



# Step 4

Report your diluted test materials results in PORTAL



Note: Sorbic Acid needs to be analysed within 3 days of receipt

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Protocol BC-BV3

Sample codes:

PT-BV-530

Description:

1 x LDPE bottle

#### рН

#### Step 1

Measure the pH directly on the test material provided, using your routine method



# Step 2 Report your result in



#### Brix, Acidity

#### Step 1

Dilute the test material 1/10 with distilled water, then mix carefully



# Step 2

Test using your routine methods



#### Step 3

Report your results in PORTAL, taking into account the dilution factor



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