Schedule of Accreditation

issued by

United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

1901

Accredited to ISO/IEC 17025:2017

Chivas Brothers Ltd

Issue No: 029 **Issue date:** 24 September 2026

Brands Technical Centre-South
Kilmalid
Stirling Road
Dumbarton
Scotland
G82 2SS

Contact: Louise Kehoe
Tel: +44 (0) 1542 783100
E-Mail: louise.kehoe@pernod-ricard.com

Testing performed at the above address only

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
ALCOHOLIC BEVERAGES	<u>Chemical Tests</u>	Documented In-House Methods identified by procedure number
Liqueurs, Spirits, Spirit Drinks and intermediate production process samples.	Alcoholic strength (apparent)	BTCP-4003 by densitometry
	Alcoholic strength (actual)	BTCP-4003 by distillation followed by densitometry
	Colour (Tint)	BTCP-4012 by Spectrophotometer absorbance at 525nm
	Determination of Ethyl carbamate: CAS No. 51-79-6	BTCP-4004 by Gas Chromatography-Mass Spectrometry (GC/MS)
	Determination of Higher Alcohols, Esters and Aldehydes:	BTCP-4006 by Gas Chromatography Flame Ionisation Detector (GC-FID)

	CAS No.
Acetaldehyde	75-07-0
Methanol	67-56-1
Acetal	105-57-7
Ethyl acetate	141-78-6
n-Propanol	71-23-8
iso-Butanol	78-83-1
iso- Amyl Acetate	123-92-2
2-Methyl butanol	1565-80-6
3-Methyl butanol	123-51-3
Ethyl Hexanoate	123-66-0
Ethyl lactate	687-47-8
Furfural	98-01-1
n-butanol	71-36-3

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
ALCOHOLIC BEVERAGES (cont'd)	Chemical Tests (cont'd)	Documented In-House Methods identified by procedure number
Liqueurs, Spirits, Spirit Drinks and intermediate production process samples (cont'd)	Determination of Esters, Acids and Alcohols:	BTCP-4015 by Gas Chromatography Mass Spectrometry (GC-MS)
	Ethyl caprylate 106-32-1 Acetic acid 64-19-7 Propionic acid 79-09-4 Isobutyric acid 79-31-2 Ethyl caprate 110-38-3 Isovaleric acid 503-74-2 Phenyl ethyl acetate 103-45-7 Ethyl laurate 106-33-2 Caproic acid 142-62-1 2-phenyl ethanol 60-12-8 Ethyl myristate 124-06-1 Caprylic acid 124-07-2 Pelargonic acid 112-05-0 Ethyl palmitate 628-97-7 Capric acid 334-48-5 Ethyl palmitoleate 54546-22-4 1-hexadecanol 36653-82-4 Ethyl Stearate 111-61-5 Ethyl Oleate 111-62-6 Lauric Acid 143-07-7 Ethyl linoleate 544-35-4 Ethyl linolenate 1191-41-9 (CAS No.)	
	Determination of N-Nitrosodimethylamine: CAS No.62-75-9	BTCP-4005 by Gas Chromatography Nitrogen Chemiluminescence Detection (GC-NCD)
Liqueurs, Spirits, Spirit Drinks and intermediate production process samples (cont'd)	Major Aldehydes Total Higher Alcohols Low Boiling Esters Medium Boiling Esters High Boiling Esters Chill Haze Esters Total Esters Total Acids	BTCP-4006 & BTCP-4015 by calculation

1901

Accredited to ISO/IEC 17025:2017

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

Chivas Brothers Ltd

Issue No: 029 **Issue date:** 24 September 2026

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
ALCOHOLIC BEVERAGES (cont'd)	Chemical Tests (cont'd)	Documented In-House Methods identified by procedure number
Spirit Distillates, High Strength Spirits, Bottling Strength Alcoholic Spirits	Metals: Aluminium Arsenic Beryllium Calcium Cadmium Cobalt Chromium Copper Iron Potassium Lithium Magnesium Manganese Molybdenum Sodium Nickel Lead Antimony Tin Strontium Titanium Vanadium Zinc	BTCP-4301 using ICP-MS
WATER: Effluent	Settled chemical oxygen demand Range 10 – 20,000 mg/l	STLP008 using Hach Lange kits
ALCOHOLIC BEVERAGES and ETHANOLIC SIMULANTS Liqueurs, Spirits, Spirit Drinks	Opinions and Interpretations Analysis and related opinions and interpretations for the purpose of assessment of authenticity and adulteration	Standard operating procedure BTCP-4014 and related industry, Statutory Instruments and EC Regulations, own brand specification and comparison samples.
END		