

TITREX

ACT

AUTOMATIC COMPACT TITRATION

Automatic
analysis

pH
acidity

SO₂

sugars

in oenological
products

STEROGLOSS[®]

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TITREX ACT

AUTOMATIC COMPACT TITRATION

**Titrex ACT family
has been designed to simply
and precisely satisfy
and perform the widest range
of potentiometric titrations:**

- **complexometric titrations**
- **argentometric**
- **acid-base**
- **redox**



Compact and modular at the same time

Titrex ACT is a compact as well as modular instrument. It can be configured at will, therefore it is fitted to satisfy the ever-changing laboratory requirements. The burettes for titrant solutions and the peristaltic pumps for the auxiliary reactants can be integrated to the system at any time.

Software upgrading

Simply performed by connecting the Titrex ACT to a PC.

Easy to use

The wide graphic display contains all the messages and the icons that make Titrex ACT extremely easy to use. The titrator guides the user in each programming phase, analysis and data interpretation.

On-line graphics

During the titration process the graphic trend is displayed in real time, so that the operator is immediately informed about the analysis trend.

GLP

Each analytical report obtained with the Titrex is complete and reports: company/institution and operators name, analysis date and time, sample alphanumeric code, titrant consumption, volume/weight, result reported in the desired unit (e.g. % g/etc.).

BENEFITS:



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Titration and service programs:

- **It is possible to save in memory up to 30 programs**
- **Final point:** titrations with pre-defined pH/mV value
- **Equivalence:** titrations with automatic localization of the equivalent point/s, and pre-defined or incremental additions during the titration (up to 4 equivalent points)
- **Dosage:** dispensing of pre-defined fixed volumes
- **Priming and burette cleaning:** reactants loading and rinsing at the end of operation
- **Calibration:** for pH electrode and sugar analysis (calibration curve)

Specific programs to oenology:

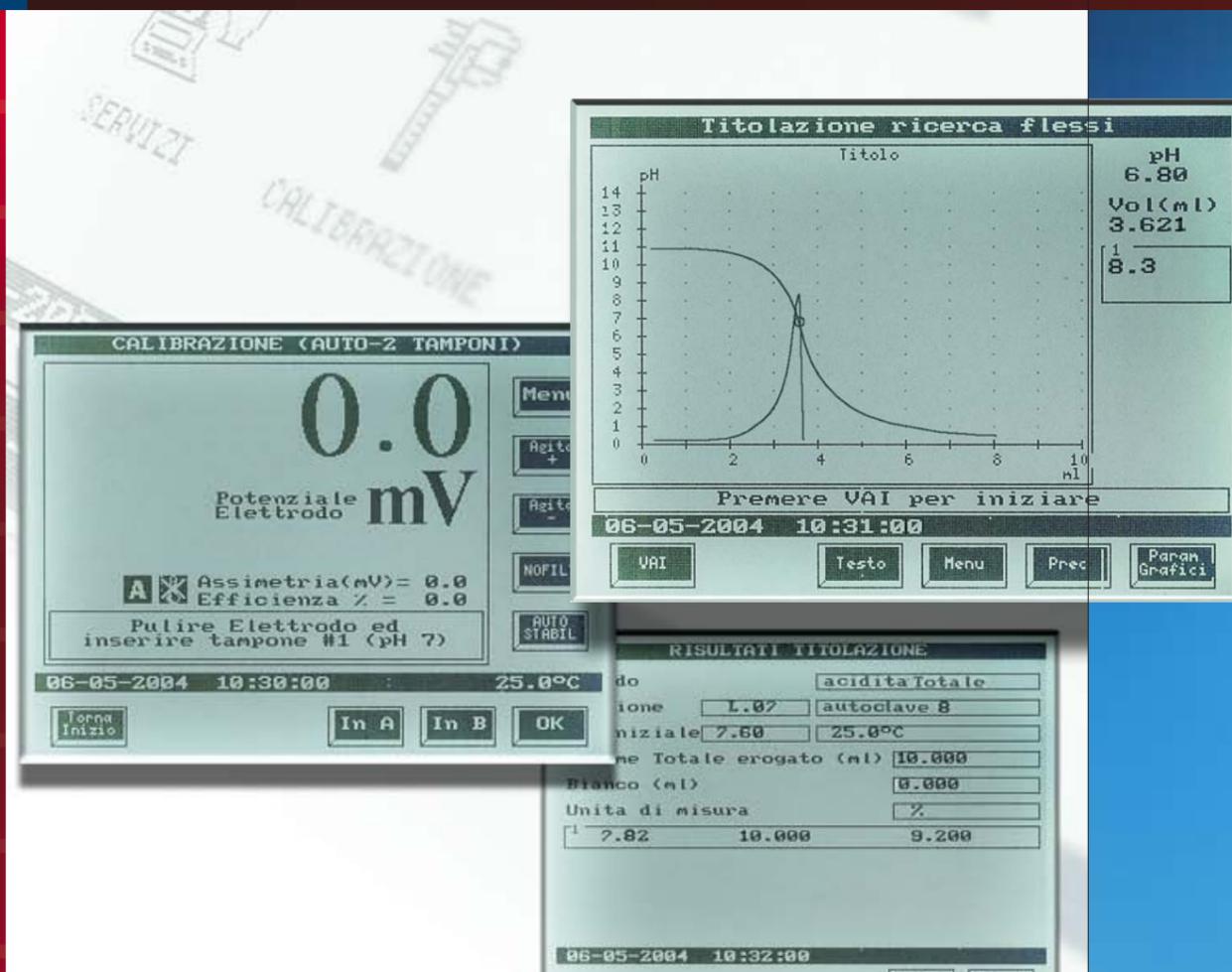
- **pH and total acidity:**
it is performed with a pH electrode (final point titration to pH 7.00) without sample pre-treatment.
- **Free and total SO₂ :**
it is performed with double platinum electrode, without sample pre-treatment. Once the sample aliquots have been proportioned in the respective titration vessels (manually or through auto-level), the analysis includes the automatic addition of the auxiliary reactants (H₂SO₄ and NaOH) by means of peristaltic pumps, with automatic control of the waiting time (alkaline reaction for total SO₂). Free, total and combined SO₂ analysis can be performed on the same sample (double Ripper) as well;
- **Reducing sugars:**
the analysis is performed by means of redox titration with a platinum electrode on decolorized and diluted within 25g/l sample. Once the sample aliquots (5ml) have been manually proportioned in the respective titration vessels the analysis can be performed by previous oxidation of the sample.

The following two methods are used:

- **Sample oxidation on a heating plate**, available in the oxidation kit;
- **Automatic oxidation with heatable sampler**; the analysis of reducing sugars may be fully automatic (oxidation included), i.e. with no need for operator action.



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HARDWARE TECHNICAL FEATURES

Control module

- Wide, clear and evident graphic display
- 2 outputs for combined electrodes:
 - pH: 0.00...14.00 (0.01 pH);
 - mV: -1999.9...+1999.9 (0,1mV)
- 1 output for reference electrode
- 1 output for temperature sensor: 0...100°C
- Parallel connection to printer and RS 232 C serial connections to external PC and scale, RS 485 serial connection to burettes, optional peristaltic pumps (max 5), 16-position standard or thermostatable sampling plate
- 24 Vdc input voltage

Anti-acid plastic body:

Available in two sizes for ACT models: ACT (existing version suitable for maximum configuration) and ACT₂ (compact size version)

Automatic burettes

It is possible to install up to 4 burettes

- Burette equipped with 48.000 stepper motor
- 10 ml graduated clear glass syringe and interchangeable PTFE tip
- Four-way valve (titrant/cleaning reactant suction, titrant delivery, syringe) in anticorrosive material

Titrex ACT and ACT₂ basic version

- General control central unit
- N° 1 automatic burette complete of delivery and exhaust pipe
- N° 1 peristaltic pump
- Instruction manual



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TITREX ACT₂



- **TITREX ACT₂**
length 291 mm,
depth 315 mm,
height 465 mm
(single analysis
stand not included)

- **TITREX ACT**
length 610 mm,
depth 310 mm,
height 345 mm
(single analysis
stand not included)

Both versions are equipped with a save-space tray placed above the instrument suitable for reagent bottles

TITREX ACT



PERIPHERAL UNITS

TITREX ACT

AUTOMATIC COMPACT TITRATION

Automatic burette for dosing the titrant reactants

Standard equipment:

- Burette equipped with 48.000 stepper motor
- Four-way valve (titrant/cleaning reactant suction, titrant delivery, syringe)
- 10 ml clear glass syringe

Note:

- Titrex ACT:** Addition of up to 3 burettes to basic version
- Titrex ACT₂:** Addition of up to 1 burette to basic version

Peristaltic pump for auxiliary reactants dosing

Standard equipment:

- N° 1 peristaltic pump complete of neoprene inner pipe and connections to suction/delivery pipes

Note:

- Titrex ACT:** Addition of up to 4 pumps to basic version
- Titrex ACT₂:** Addition of up to 2 pumps to basic version



Automatic burette module

Pump module



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Single analysis stand

Standard equipment:

- Drilled electrodes holding head for housing up to 5 delivery pipes (pumps and burettes), 3 sensors (electrodes and Pt100), 1 mechanical stirrer
- Round base supporting the titration vessel
- Threaded connector for burette delivery pipe connection and NS 14/23 plastic adapter for electrode fixing

Stirrer:

Standard equipment:

- Magnetic drive mechanical stirrer complete of 70 cm long stirring glass blade

Printer:

Pin printer
LX300 + EPSON, 80 columns

Standard equipment:

- 220 V power supply cable
- Printer tape



Standard autosampler AS 23

16 position autosampler (15 working positions and 1 fixed washing position). The instrument has been designed to optimize the sample auto-level analysis procedure so as to speed up the whole preparation. Its lighter and smaller footprint makes it a new and special design.

Standard equipment:

- Drilled electrodes holding head for housing up to 8 delivery pipes (pumps and burettes), 3 sensors (electrodes and Pt100), 1 mechanical stirrer and complete of 8 burettes/pumps delivery pipes guides
- Extension cable for central unit connection to the mechanical stirrer
- Mechanical stirrer with glass blade
- RS 485 serial connection
- Using the auto-level accessory, which collects excess sample from the titration vessel, a steady well-known quantity is always obtained. Therefore, the operator is no longer required to add samples with a pipette before analysis, thus saving time.

Thermostatable autosampler AST 22

16 position autosampler (15 working positions and 1 fixed washing position) complete of aluminium PTFE basin. Heating by thermoresistance and cooling by recycling cold water from external delivery.

Standard equipment:

- Drilled electrodes holding head for housing up to 8 delivery pipes (pumps and burettes), 3 sensors (electrodes and Pt100), 1 mechanical stirrer and complete of 8 burettes/pumps delivery pipes guides.
- Inlet and outlet for water recycle, thermoresistance temperature from +5°C above environment temperature to +100°C
- Inch faucet metal fitting and Ø 8mm RILSAN pipe fitting
- 2,5 m RILSAN inlet pipe Ø 6x8mm
- 2,5 m RILSAN outlet pipe Ø 12x10mm
- Power supply cable (220V)
- RS 485 serial connection



TITREX ACT VERSIONS FOR OENOLOGY



Titrex ACT + autosampler AS 23



Titrex ACT + autosampler AST 22



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VERSION A: pH / TOTAL ACIDITY

with AS 23 autosampler:

N° 01	TITREX ACT WITH 1 BURETTE AND 1 PUMP	SQTV053716
N° 01	STOPPER FOR TITREX BURETTE VALVE	VAJT056530
N° 01	PTFE TUBE FOR ACT / AS23 CONNECTION	VAJT058999
N° 01	ENDING PTFE TUBE WITH ANTIDIFFUSER DEVICE L= 80mm	VAJT056397
N° 01	TITRANT SUCTION PIPE	SQFT053978
Mt 10	PVC PIPE	AGOY024204
N° 01	PTFE ENDING TUBE FOR PERISTALTIC PUMP (AS23)	VAJT059012
N° 01	ELECTRODE CABLE S7 BNC L=1,4m	SQFT054082
N° 01	PT100 PTFE PROBE L=1,2mm	SQFT055954
N° 01	INLAB SCIENCE PH ELECTRODE	MLFM056310
N° 01	AS23 AUTOSAMPLER	SQTR058908
N° 01	100 PLASTIC VESSELS PACK	SQFV046495

VERSION B: FREE / TOTAL / COMBINED SO₂

with AS 23 autosampler

N° 01	ACT WITH 1 BURETTE AND 3 PUMPS	SQTV053718
N° 01	STOPPER FOR TITREX BURETTE VALVE	VAJT056530
N° 01	PTFE TUBE FOR ACT / AS23 CONNECTION	VAJT058999
N° 01	ENDING PTFE TUBE WITH ANTIDIFFUSER DEVICE L= 80mm	VAJT056397
N° 01	TITRANT SUCTION PIPE	SQFT053978
Mt 10	PVC PIPE	AGOY024204
N° 03	PTFE ENDING TUBE FOR PERISTALTIC PUMP (AS23)	VAJT059012
N° 01	DOUBLE PT ELECTRODE CABLE FOR S7 BNC CONNECTION L=1,4m	SQFT054043
N° 01	DOUBLE PT ELECTRODE FOR KARL FISCHER	MLSM046402
N° 01	AS23 AUTOSAMPLER	SQTR058908
N° 01	100 PLASTIC VESSELS PACK	SQFV046495

VERSION C: pH / TOTAL ACIDITY/FREE, TOTAL AND COMBINED SO₂

with AS 23 autosampler:

N° 01	ACT WITH 2 BURETTES AND 3 PUMPS	SQTV053723
N° 02	STOPPER FOR TITREX BURETTE VALVE	VAJT056530
N° 02	PTFE TUBE FOR ACT / AS23 CONNECTION	VAJT058999
N° 02	ENDING PTFE TUBE WITH ANTIDIFFUSER DEVICE L= 80mm	VAJT056397
N° 02	TITRANT SUCTION PIPE	SQFT053978
Mt 10	PVC PIPE	AGOY024204
N° 03	PTFE ENDING TUBE FOR PERISTALTIC PUMP (AS23)	VAJT059012
N° 01	DOUBLE PT ELECTRODE CABLE FOR S7 BNC CONNECTION L=1,4m	SQFT054043
N° 01	ELECTRODE CABLE S7 BNC L=1,4m	SQFT054082
N° 01	PT 100 PTFE PROBE L=1,2m	SQFT055954
N° 01	INLAB SCIENCE PH ELECTRODE	MLFM056310
N° 01	DOUBLE PT ELECTRODE FOR KARL FISCHER	MLSM046402
N° 01	AS23 AUTOSAMPLER	SQTR058908
N° 01	100 PLASTIC VESSELS PACK	SQFV046495

VERSION D: ZUCCHERI

with AS 23 autosampler, with external oxidation/cooling of samples:

N° 01	ACT WITH 2 BURETTES AND 3 PUMPS	SQTV053723
N° 02	STOPPER FOR TITREX BURETTE VALVE	VAJT056530
N° 02	PTFE TUBE FOR ACT / AS23 CONNECTION	VAJT058999
N° 01	ENDING PTFE TUBE WITH ANTIDIFFUSER DEVICE L= 80mm	VAJT056397
N° 01	ENDING PTFE TUBE WITH DRILLED ANTIDIFFUSER DEVICE L= 55mm	VAJT056398
N° 02	TITRANT SUCTION PIPE	SQFT053978
Mt 10	PVC PIPE	AGOY024204
N° 03	PTFE ENDING TUBE FOR PERISTALTIC PUMP (AS23)	VAJT059012
N° 01	ELECTRODE CABLE S7 BNC L=1,4m	SQFT054082
N° 01	REDOX COMBINED ELECTRODE	HIFM043541
N° 01	AS23 AUTOSAMPLER	SQTR058908
N° 20	120ml PYREX GLASS VESSEL	SQUA043914

VERSION E: SUGARS

with AST 22 thermostatable autosampler,
with automatic oxidation/cooling of samples:

N° 01	ACT WITH 2 BURETTES AND 3 PUMPS	SQTV053723
N° 02	STOPPER FOR TITREX BURETTE VALVE	VAJT056530
N° 02	PTFE PIPE WITH FITTING L= 2m	VAJT056400
N° 01	ENDING PTFE TUBE WITH ANTIDIFFUSER DEVICE L= 80mm	VAJT056397
N° 01	ENDING PTFE TUBE WITH DRILLED ANTIDIFFUSER DEVICE L= 55mm	VAJT056398
N° 02	TITRANT SUCTION PIPE	SQFT053978
Mt 10	PVC PIPE	AGOY024204
N° 03	PTFE PUMP DELIVERY/AUTO-LEVEL L= 1,95 m	SQFT053976
N° 01	ELECTRODE CABLE FOR S7-BNC CONNECTOR Ø 3mm L= 3m	SQFV047064
N° 01	TITREX STIRRER ENCAPSULATED EXTENSION L= 2m	VAJT056510
N° 01	REDOX COMBINED ELECTRODE	HIFM043541
N° 01	AST22 16-POSITIONS AUTOSAMPLER	SQTR045744
N° 01	MECHANICAL STIRRER WITH GLASS VESSEL	SQTR044169
N° 20	120ml PYREX GLASS VESSEL	SQUA043914

VERSION F: pH / TOTAL ACIDITY / FREE, TOTAL AND COMBINED SO₂ / SUGARS

with AS 23 autosampler, with external oxidation/cooling of samples:

N° 01	ACT WITH 4 BURETTES AND 5 PUMPS	SQTV053735
N° 04	STOPPER FOR TITREX BURETTE VALVE	VAJT056530
N° 04	PTFE TUBE FOR ACT / AS23 CONNECTION	VAJT058999
N° 03	ENDING PTFE TUBE WITH ANTIDIFFUSER DEVICE L= 80mm	VAJT056397
N° 01	ENDING PTFE TUBE WITH DRILLED ANTIDIFFUSER DEVICE L= 55mm	VAJT056398
N° 04	TITRANT SUCTION PIPE	SQFT053978
Mt 10	PVC PIPE	AGOY024204
N° 05	PTFE ENDING TUBE FOR PERISTALTIC PUMP (AS23)	VAJT059012
N° 02	ELECTRODE CABLE S7 BNC L=1,4m	SQFT054082
N° 01	DOUBLE PT ELECTRODE CABLE FOR S7 BNC CONNECTION L= 1,4m	SQFT054043
N° 01	INLAB SCIENCE PH ELECTRODE	MLFM056310
N° 01	DOUBLE PT ELECTRODE FOR KARL FISCHER	MLSM046402
N° 01	REDOX COMBINED ELECTRODE	HIFM043541
N° 01	PT 100 PTFE PROBE L= 1,2m	SQFT055954
N° 01	AS23 AUTOSAMPLER	SQTR058908
N° 20	120ml PYREX GLASS VESSEL	SQUA043914
N° 01	100 PLASTIC VESSELS PACK	SQFV046495

VERSION G: pH / TOTAL ACIDITY / FREE, TOTAL AND COMBINED SO₂ / SUGARS

with AST 22 thermostatable autosampler,
with automatic oxidation / cooling of samples:

N° 01	ACT WITH 4 BURETTES AND 5 PUMPS	SQTV053735
N° 04	STOPPER FOR TITREX BURETTE VALVE	VAJT056530
N° 04	PTFE PIPE WITH FITTING L= 2m	VAJT056400
N° 03	ENDING PTFE TUBE WITH ANTIDIFFUSER DEVICE L= 80mm	VAJT056397
N° 01	ENDING PTFE TUBE WITH DRILLED ANTIDIFFUSER DEVICE L= 55mm	VAJT056398
N° 04	TITRANT SUCTION PIPE	SQFT053978
Mt 10	PVC PIPE	AGOY024204
N° 04	PTFE PUMP DELIVERY/AUTO-LEVEL PIPE L= 1,95 m	SQFT053976
N° 01	SISTEMA PER AUTOLIVELLO AS/AST22	SQFT054757
N° 02	ELECTRODE CABLE FOR S7-BNC CONNECTOR Ø3mm L= 3m	SQFV047064
N° 01	DOUBLE PT ELECTRODE CABLE FOR DOUBLE S7 BNC CONNECTION L= 3m	SQFT054044
N° 01	TITREX STIRRER ENCAPSULATED EXTENSION L= 2m	VAJT056510
N° 01	INLAB SCIENCE PH ELECTRODE	MLFM056310
N° 01	DOUBLE PT ELECTRODE FOR KARL FISCHER	MLSM046402
N° 01	REDOX COMBINED ELECTRODE	HIFM043541
N° 01	PT 100 PTFE PROBE L= 2,5m	SQFT055955
N° 01	AST 22 16-POSITIONS AUTOSAMPLER	SQTR045744
N° 01	MECHANICAL STIRRER WITH GLASS BLADE	SQTR044169
N° 20	120ml PYREX GLASS VESSEL	SQUA043914
N° 01	N° 100 PLASTIC VESSELS PACK	SQFV046495

TITREX ACT₂ VERSIONS FOR OENOLOGY



Titrex ACT₂ + autosampler AS 23



Titrex ACT₂ + autosampler AST 22



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VERSION A: pH / TOTAL ACIDITY

with AS 23 autosampler:

N° 01	TITREX ACT ₂ WITH 1 BURETTE AND 1 PUMP	SQTV059010
N° 01	STOPPER FOR TITREX BURETTE VALVE	VAJT056530
N° 01	PTFE TUBE FOR ACT / AS 23 CONNECTION	VAJT058999
N° 01	ENDING PTFE TUBE WITH ANTIDIFFUSER DEVICE L= 80mm	VAJT056397
N° 01	TITREX ACT SUCTION/BURETTE WASHING PIPE L= 1,3m	SQFT053978
Mt 10	PVC PIPE	AGOY024204
N° 01	ELECTRODE CABLE S7 BNC L= 1,4m	SQFT054082
N° 01	PTFE ENDING TUBE FOR PERISTALTIC PUMP (AS 23)	VAJT059012
N° 01	PT 100 PTFE PROBE L= 1,2mm	SQFT055954
N° 01	INLAB SCIENCE PH ELECTRODE	MLFM056310
N° 01	AS23 AUTOSAMPLER	SQTR058908
N° 01	100 PLASTIC VESSELS PACK	SQFV046495

VERSION B: FREE / TOTAL / COMBINED SO₂

with AS 23 autosampler

N° 01	ACT ₂ WITH 1 BURETTE AND 3 PUMPS	SQTV053718
N° 01	STOPPER FOR TITREX BURETTE VALVE	VAJT056530
N° 01	PTFE TUBE FOR ACT / AS 23 CONNECTION	VAJT058999
N° 01	ENDING PTFE TUBE WITH ANTIDIFFUSER DEVICE L= 80mm	VAJT056397
N° 01	TITREX ACT SUCTION/BURETTE WASHING PIPE L= 1,3m	SQFT053978
Mt 10	PVC PIPE	AGOY024204
N° 03	PTFE ENDING TUBE FOR PERISTALTIC PUMP (AS 23)	VAJT059012
N° 01	DOUBLE PT ELECTRODE CABLE FOR S7 BNC CONNECTION L=1,4m	SQFT054043
N° 01	DOUBLE PT ELECTRODE FOR KARL FISCHER	MLSM046402
N° 01	AS23 AUTOSAMPLER	SQTR058908
N° 01	N° 100 PLASTIC VESSELS PACK	SQFV046495

VERSION C: pH / TOTAL ACIDITY/FREE, TOTAL AND COMBINED SO₂

with AS 23 autosampler:

N° 01	ACT ₂ WITH 2 BURETTES AND 3 PUMPS	SQTV058821
N° 02	STOPPER FOR TITREX BURETTE VALVE	VAJT056530
N° 02	PTFE TUBE FOR ACT / AS 23 CONNECTION	VAJT058999
N° 02	ENDING PTFE TUBE WITH ANTIDIFFUSER DEVICE L= 80mm	VAJT056397
N° 02	TITREX ACT SUCTION/BURETTE WASHING PIPE L= 1,3m	SQFT053978
Mt 10	PVC PIPE	AGOY024204
N° 03	PTFE ENDING TUBE FOR PERISTALTIC PUMP (AS 23)	VAJT059012
N° 01	DOUBLE PT ELECTRODE CABLE FOR S7 BNC CONNECTION L=1,4m	SQFT054043
N° 01	ELECTRODE CABLE S7 BNC L= 1,4m	SQFT054082
N° 01	PT 100 PTFE PROBE L= 1,2mm	SQFT055954
N° 01	INLAB SCIENCE PH ELECTRODE	MLFM056310
N° 01	DOUBLE PT ELECTRODE FOR KARL FISCHER	MLSM046402
N° 01	AS23 AUTOSAMPLER	SQTR058908
N° 01	N° 100 PLASTIC VESSELS PACK	SQFV046495

VERSION D: SUGARS

with AS 23 autosampler, with external oxidation/cooling of samples:

N° 01	ACT ₂ WITH 2 BURETTES AND 3 PUMPS	SQTV058821
N° 02	STOPPER FOR TITREX BURETTE VALVE	VAJT056530
N° 02	PTFE TUBE FOR ACT / AS 23 CONNECTION	VAJT058999
N° 01	ENDING PTFE TUBE WITH ANTIDIFFUSER DEVICE L= 80mm	VAJT056397
N° 01	ENDING PTFE TUBE WITH DRILLED ANTIDIFFUSER DEVICE L= 55mm	VAJT056398
N° 02	TITREX ACT SUCTION/BURETTE WASHING PIPE L= 1,3m	SQFT053978
Mt 10	PVC PIPE	AGOY024204
N° 03	PTFE ENDING TUBE FOR PERISTALTIC PUMP (AS 23)	VAJT059012
N° 01	ELECTRODE CABLE S7 BNC L= 1,4m	SQFT054082
N° 01	REDOX COMBINED ELECTRODE	HIFM043541
N° 01	AS23 AUTOSAMPLER	SQTR058908
N° 20	120ml PYREX GLASS VESSEL	SQUA043914

VERSION E: SUGARS

with AST 22 thermostatable autosampler, with automatic oxidation/cooling of samples:

N° 01	ACT ₂ WITH 2 BURETTES AND 3 PUMPS	SQTV058821
N° 02	STOPPER FOR TITREX BURETTE VALVE	VAJT056530
N° 02	PTFE PIPE WITH FITTING L= 2m	VAJT056400
N° 01	ENDING PTFE TUBE WITH ANTIDIFFUSER DEVICE L= 80mm	VAJT056397
N° 01	ENDING PTFE TUBE WITH DRILLED ANTIDIFFUSER DEVICE L= 55mm	VAJT056398
N° 02	TITREX ACT SUCTION/BURETTE WASHING PIPE L= 1,3m	SQFT053978
Mt 10	PVC PIPE	AGOY024204
N° 03	PTFE PUMP DELIVERY/AUTO-LEVEL L= 1,95 m	SQFT053976
N° 01	ELECTRODE CABLE FOR S7-BNC CONNECTOR Ø 3mm L= 3m	SQFV047064
N° 01	TITREX STIRRER ENCAPSULATED EXTENSION L= 2m	VAJT056510
N° 01	REDOX COMBINED ELECTRODE	HIFM043541
N° 01	AST22 16-POSITIONS AUTOSAMPLER	SQTR045744
N° 01	MECHANICAL STIRRER WITH GLASS VESSEL	SQTR044169
N° 20	120ml PYREX GLASS VESSEL	SQUA043914

TITREX ACT

AUTOMATIC COMPACT TITRATION



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REAGENTS

REAGENTS FOR pH / TOTAL ACIDITY ANALYSIS EQUIPPED WITH:

N° 01	1x250ml BUFFER	PAPE022003
N° 01	1x250ml pH 7 BUFFER	PAPE022011
N° 01	1x100ml KCL 3M	HIPE009306
N° 01	1x1000ml NaOH 0,25N	PAPE021505

REAGENTS FOR FREE / TOTAL AND COMBINED SO₂ ANALYSIS EQUIPPED WITH:

N° 01	1x1000ml H ₂ SO ₄ 25% P/V	TIPE026057
N° 01	1x1000ml NaOH 4N	PAPE030868
N° 01	PHIAL FOR 1L 0.1N IODINE PREP.	PAPE012205

REAGENTS FOR SUGARS ANALYSIS EQUIPPED WITH:

N° 01	1x1000ml SODIUM THIOSULPHATE 1N	PAPE021753
N° 01	1X1000ML H ₂ SO ₄ 25% P/V	TIPE026057
N° 01	1X250gr KI SALT	PAPE017886
N° 01	1X250g GRANULAR PUMICE STONE	PAPE016603
N° 01	1X1000ML FEHLING A	PAPE019301
N° 01	1X1000ML FEHLING B	PAPE019303

SPARE PARTS

MECHANICAL STIRRER WITH BLADE (AS 23)	VAJT058919
MECHANICAL STIRRER WITH GLASS BLADE (AG 21 MODEL)	SQTR044169
ENDING PTFE TUBE WITH ANTIDIFFUSER DEVICE L= 80mm	VAJT056397
ENDING PTFE TUBE WITH DRILLED ANTIDIFFUSER DEVICE L= 55mm	VAJT056398
PVC PIPE L= 10m	AG0Y024204
PTFE PUMP DELIVERY/AUTO-LEVEL PIPE L= 1,95 m	SQFT053976
PTFE PIPE WITH FITTING L= 2m	VAJT056400
PTFE TUBE FOR ACT / AS 23 CONNECTION	VAJT058999
PTFE ENDING TUBE FOR PERISTALTIC PUMP (AS 23)	VAJT059012
REDOX COMBINED ELECTRODE	HIFM043541
INLAB SCIENCE PH ELECTRODE	MLFM056310
DOUBLE PT ELECTRODE FOR KARL FISCHER	MLSM046402
NOPRENE TUBE WITH CONNECTION FOR PERISTALTIC PUMP	VAJT056492

ACT e ACT₂ ACCESSORIES

AUTO-INSTALLING EXTRA BURETTE (for AS 23) EQUIPPED WITH:

N° 01	BURETTE MODULE FOR ACT	SQFV053827
N° 01	STOPPER FOR TITREX BURETTE VALVE	VAJT056530
N° 01	PTFE TUBE FOR ACT / AS 23 CONNECTION	VAJT058999
N° 01	ENDING PTFE TUBE WITH ANTIDIFFUSER DEVICE L= 80mm	VAJT056397
N° 01	TITREX ACT SUCTION/BURETTE WASHING PIPE L= 1,3m	SQFT053978

AUTO-INSTALLING EXTRA BURETTE (for AST 22) EQUIPPED WITH:

N° 01	BURETTE MODULE FOR ACT	SQFV053827
N° 01	STOPPER FOR TITREX BURETTE VALVE	VAJT056530
N° 01	PTFE PIPE WITH FITTING L= 2m	VAJT056400
N° 01	ENDING PTFE TUBE WITH ANTIDIFFUSER DEVICE L= 80mm	VAJT056397
N° 01	TITREX ACT SUCTION/BURETTE WASHING PIPE L= 1,3m	SQFT053978

AUTO-INSTALLING EXTRA PERISTALTIC PUMP (DELIVERY/AUTO-LEVEL) for AS 23 EQUIPPED WITH:

N° 01	ACT PERISTALTIC PUMP MODULE FOR ACT	SQFV053828
Mt 10	PVC PIPE	AG0Y024204
N° 01	PTFE ENDING TUBE FOR PERISTALTIC PUMP (AS 23)	VAJT059012

AUTO-INSTALLING EXTRA PERISTALTIC PUMP (DELIVERY/AUTO-LEVEL) for AST 22 EQUIPPED WITH:

N° 01	PERISTALTIC PUMP MODULE FOR ACT	SQFV053828
Mt 10	PVC PIPE	AG0Y024204
N° 01	PTFE PUMP DELIVERY/AUTO-LEVEL PIPE L= 1,95 m	SQFT053976

ACCESSORIES FOR OXIDATION/COOLING IN REDUCING SUGARS ANALYSIS

(essential for versions with external oxidation/cooling of samples and recommended for versions with automatic oxidation/cooling too)

N° 01	STEEL SUPPORT FOR N° 8 VESSELS	
N° 01	STEEL BASIN FOR COOLING	
N° 01	CERAN 33x33 cm HEATING PLATE	SQFV059013
N° 01	FLAT LID FOR TEMPERATURE DIFFUSION CONTROL	
N° 01	PIPES AND PIPE FITTINGS KIT	

SOFTWARE FOR DATA CAPTURE FROM A PC:

N° 01	TITROSOFT SOFTWARE FOR DATA CAPTURE FROM A PC	SQFV056293
N° 01	USB CABLE FOR PC CONNECTION	SQFV056294

AUTO-LEVEL for AS 23 / AST 22:

N° 01	AUTO-LEVEL SYSTEM FOR AS 23	SQFV059205
N° 01	AUTO-LEVEL SYSTEM FOR AS 22/AST 22	SQFT054757

PRINTER EQUIPPED WITH:

N° 01	EPSON LX-300+ II PIN PRINTER, 80 COLOURS	CDDS039634
N° 01	TITREX-PRINTER PARALLEL CABLE L= 1,8m	CDDS006781
N° 01	24x11mm CONTINUOUS MODULE PAPER, N° 500 SHEETS	SQFV047074

BURETTE WASHING TUBE:

N° 01	TITREX ACT SUCTION/BURETTE WASHING PIPE L= 1,3m	SQFT053978
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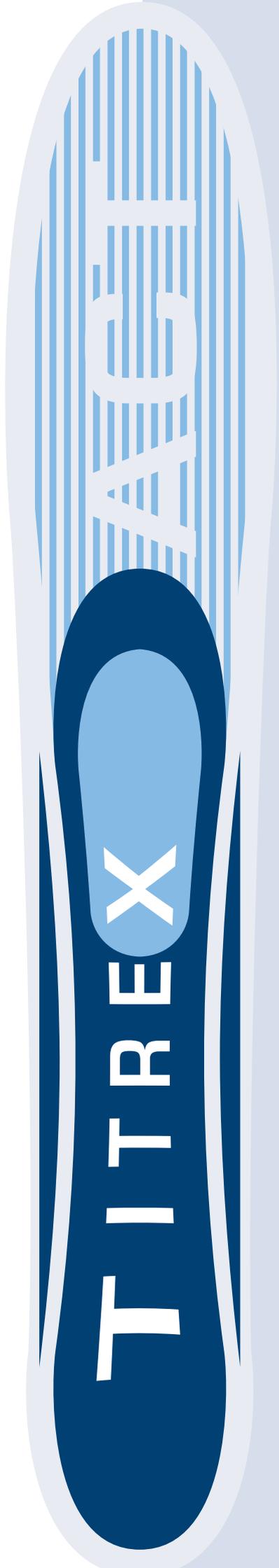
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AUTOMATIC COMPACT TITRATION

Dispositivo TITREX ACT ENG. REV. 1 - APRILE 09

photo: Roberto Vecchi