

# Calcium\_2 (CA\_2)

Current Revision and Date <sup>a</sup>	Rev. 03, 2019-03	
Product Name	Atellica CH Calcium_2 (CA_2)	(8200 tests)
Abbreviated Product Name	Atellica CH CA_2	
Test Name/ID	CA_2	
Systems	Atellica CH Analyzer	
Materials Required but Not Provided	Atellica CH CHEM CAL	REF 11099411
Specimen Types	Serum, plasma (lithium heparin), and urine	
Sample Volume	4 μL	
Measuring Interval	Serum/plasma: 1.0–16.0 mg/dL (0.25–4.00 m Urine: 1.0–32.0 mg/dL (0.25–8.00 mmol/L)	mol/L)

<sup>&</sup>lt;sup>a</sup> A vertical bar in the page margin indicates technical content that differs from the previous version.



#### Intended Use

The Atellica® CH Calcium\_2 (CA\_2) assay is for *in vitro* diagnostic use in the quantitative determination of calcium in human serum, plasma (lithium heparin), and urine on the Atellica® CH Analyzer. Such measurements are used in the diagnosis and treatment of parathyroid disease, a variety of bone diseases, chronic renal failure, and tetany.

# **Summary and Explanation**

The Atellica CH Calcium\_2 (CA\_2) assay is based on the work of Michaylova and Ilkova, who found that Arsenazo III could form a stable complex with calcium with high selectivity at low pH.<sup>1</sup>

# **Principles of the Procedure**

Calcium ions form a colored complex with Arsenazo III, which is measured at 658/694 nm. The amount of calcium present in the sample is directly proportional to the intensity of the colored complex formed.

### **Reaction Equation**

## Reagents

Material Description	Storage	Stability <sup>a</sup>
Atellica CH CA_2	Unopened at 15–25°C	Until expiration date on product
Pack 1 (P1)  Well 1 (W1) Reagent 1 (R1) 23.5 mL Sodium Acetate, pH 5.9 (271 mmol/L); Arsenazo III (940 µmol/L); Non-reactive stabilizers	Onboard per well	63 days
Well 2 (W2) Reagent 1 (R1) 23.5 mL Sodium Acetate, pH 5.9 (271 mmol/L); Arsenazo III (940 µmol/L); Non-reactive stabilizers		

<sup>&</sup>lt;sup>a</sup> Refer to Storage and Stability.

### **Warnings and Precautions**

For in vitro diagnostic use.

For Professional Use.

#### **CAUTION**

Federal (USA) law restricts this device to sale by or on the order of a licensed healthcare professional.

Safety data sheets (SDS) available on siemens.com/healthineers.

Dispose of hazardous or biologically contaminated materials according to the practices of your institution. Discard all materials in a safe and acceptable manner and in compliance with prevailing regulatory requirements.

**Note** For information about reagent preparation, refer to *Preparing the Reagents* in the *Procedure* section.

## **Storage and Stability**

Unopened reagents are stable until the expiration date on the product when stored at 15–25°C.

Do not use products beyond the expiration date printed on the product labeling.

## **Onboard Stability**

Reagents are stable onboard the system for 63 days per well. Discard reagents at the end of the onboard stability interval. Do not use products beyond the expiration date printed on the product labeling.

## **Specimen Collection and Handling**

Serum, plasma (lithium heparin), and urine are the recommended sample types for this assay.

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## **Collecting the Specimen**

Observe universal precautions when collecting specimens. Handle all specimens as if they
are capable of transmitting disease.<sup>2</sup>

- Follow recommended procedures for collection of diagnostic blood specimens by venipuncture.<sup>3</sup>
- Follow the instructions provided with your specimen collection device for use and processing.<sup>4</sup>
- Allow blood specimens to clot completely before centrifugation.<sup>5</sup>
- Keep tubes capped at all times.<sup>5</sup>

### Storing the Specimen

Separated serum/plasma specimens may be stored for up to 8 hours when stored at room temperature<sup>6</sup> or for at least 2 days at 4°C<sup>7</sup> or stored frozen for at least 6 months at -20°C.<sup>8</sup>

Urine specimens should be collected in a bottle containing 10 mL of 6 M HCl per 24–hour specimen to prevent calcium salt precipitation.<sup>7</sup>

The handling and storage information provided here is based on data or references maintained by the manufacturer. It is the responsibility of the individual laboratory to use all available references and/or its own studies when establishing alternate stability criteria to meet specific needs.

### **Transporting the Specimen**

Package and label specimens for shipment in compliance with applicable federal and international regulations covering the transport of clinical specimens and etiological agents.

## **Preparing the Samples**

This assay requires 4  $\mu$ L of sample for a single determination. This volume does not include the unusable volume in the sample container or the additional volume required when performing duplicates or other tests on the same sample. For information about determining the minimum required volume, refer to the online help.

**Note** Do not use specimens with apparent contamination.

Before placing samples on the system, ensure that samples are free of:

- Bubbles or foam.
- Fibrin or other particulate matter.

**Note** Remove particulates by centrifugation according to CLSI guidance and the collection device manufacturer's recommendations.<sup>5</sup>

**Note** For a complete list of appropriate sample containers, refer to the online help.

#### **Procedure**

#### **Materials Provided**

The following materials are provided:

REF	Contents	Number of Tests
11097644	Pack 1 (P1) Well 1 (W1) 23.5 mL of Atellica CH CA_2 Reagent 1 Well 2 (W2) 23.5 mL of Atellica CH CA_2 Reagent 1	4 x 2050

## **Materials Required but Not Provided**

The following materials are required to perform this assay, but are not provided:

REF	Description	
	Atellica CH Analyzer <sup>a</sup>	
11099411	Atellica CH CHEM CAL (calibrator)	12 x 3.0 mL calibrator CAL  Calibrator lot-specific value sheet CAL LOT VAL
	Commercially available quality control n	naterials

a Additional system fluids are required to operate the system: Atellica CH Diluent, Atellica CH Wash, Atellica CH Conditioner, Atellica CH Cleaner, Atellica CH Reagent Probe Cleaner 1, Atellica CH Reagent Probe Cleaner 2, Atellica CH Reagent Probe Cleaner 4, Atellica CH Lamp Coolant, and Atellica CH Water Bath Additive. For system fluid instructions for use, refer to the Document Library.

### **Assay Procedure**

The system automatically performs the following steps:

- 1. For serum/plasma, dispenses 50  $\mu$ L of primary sample and 200  $\mu$ L of Atellica CH Diluent into a dilution cuvette. For urine, dispenses 25  $\mu$ L of primary sample and 225  $\mu$ L of Atellica CH Diluent into a dilution cuvette.
- 2. Dispenses 20 µL of Reagent 1 and 80 µL of special reagent water into a reaction cuvette.
- 3. Dispenses 4  $\mu$ L of pre-diluted sample into a reaction cuvette.
- 4. Mixes and incubates the mixture at 37°C.
- 5. Measures the absorbance after sample addition.
- 6. Reports results.

Note For information about special reagent water requirements, refer to the online help.

Test Duration: 3 minutes

## **Preparing the Reagents**

All reagents are liquid and ready to use.

## **Preparing the System**

Ensure that the system has sufficient reagent packs loaded in the reagent compartment. For information about loading reagent packs, refer to the online help.

## **Performing Calibration**

For calibration of the Atellica CH CA\_2 assay, use Atellica CH CHEM CAL. Use the calibrators in accordance with the calibrator instructions for use.

#### **Calibration Frequency**

Perform a calibration if one or more of the following conditions exist:

- When changing lot numbers of primary reagent packs.
- At the end of the lot calibration interval, for a specified lot of calibrated reagent on the system.
- At the end of the pack calibration interval, for calibrated reagent packs on the system.
- When indicated by quality control results.
- After major maintenance or service, if indicated by quality control results.

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At the end of the onboard stability interval, replace the reagent pack on the system with a new reagent pack. Recalibration is not required, unless the lot calibration interval is exceeded.

Stability Interval	Days
Lot Calibration	180
Pack Calibration	63
Reagent Onboard Stability	63

For information about lot calibration and pack calibration intervals, refer to the online help.

Follow government regulations or accreditation requirements for calibration frequency. Individual laboratory quality control programs and procedures may require more frequent calibration.

### **Performing Quality Control**

For quality control of the Atellica CH CA\_2 assay, use at least two levels (low and high) of the appropriate quality control material of known analyte concentration. Use the quality control material in accordance with the quality control instructions for use.

For the assigned values, refer to the lot-specific value sheet provided. A satisfactory level of performance is achieved when the analyte values obtained are within the expected control range for the system or within your range, as determined by an appropriate internal laboratory quality control scheme. Follow your laboratory's quality control procedures if the results obtained do not fall within the acceptable limits. For information about entering quality control definitions, refer to the online help.

Follow government regulations or accreditation requirements for quality control frequency. Individual laboratory quality control programs and procedures may require more frequent quality control testing.

### **Taking Corrective Action**

If the quality control results do not fall within the assigned values, do not report results. Perform corrective actions in accordance with established laboratory protocol. For suggested protocol, refer to the online help.

#### Results

### **Calculation of Results**

The system determines the result using the calculation scheme described in the online help. The system reports results in mg/dL (common units) or mmol/L (SI units), depending on the units defined when setting up the assay.

Conversion formula:  $mq/dL \times 0.25 = mmol/L$ 

For information about results outside the specified measuring interval, refer to *Measuring Interval*.

## Interpretation of Results

Results of this assay should always be interpreted in conjunction with the patient's medical history, clinical presentation, and other findings.

## Limitations

The Atellica CH CA\_2 assay is limited to the detection of calcium in human serum, plasma (lithium heparin) and urine.

## **Expected Values**

#### Reference Interval

A reference interval for healthy adults was established in accordance with CLSI Document EP28-A3c and verified for the Atellica CH Analyzer.<sup>9</sup>

The reference interval for calcium for adults is 8.7–10.4 mg/dL (2.18–2.60 mmol/L) for serum/ plasma<sup>10</sup> and 100–300 mg/day (2.50–7.50 mmol/day) for urine.<sup>11</sup>

The reference interval for random urine samples for males is 0.9–37.9 mg/dL (0.225–9.47 mmol/L), and for females is 0.5–35.7 mg/dL (0.125–8.92 mmol/L).<sup>11</sup>

Group	Specimen Type	Reference Interval Common Units (SI Units)
Adults	Serum/plasma <sup>10</sup>	8.7-10.4 mg/dL (2.18-2.60 mmol/L)
Adults	Urine <sup>11</sup>	100–300 mg/day (2.50–7.50 mmol/day)
Males	Random Urine <sup>11</sup>	0.9-37.9 mg/dL (0.225-9.47 mmol/L)
Females	Random Urine <sup>11</sup>	0.5–35.7 mg/dL (0.125–8.92 mmol/L)

As with all *in vitro* diagnostic assays, each laboratory should determine its own reference interval for the diagnostic evaluation of patient results. Consider these values as guidance only.<sup>9</sup>

### **Performance Characteristics**

### **Measuring Interval**

The Atellica CH CA\_2 assay provides results from 1.0–16.0 mg/dL (0.25–4.00 mmol/L) for serum/plasma and 1.0–32.0 mg/dL (0.25–8.00 mmol/L) for urine. The system flags all values that are outside the specified measuring interval.

## **Extended Measuring Interval**

An automatic repeat condition for this assay extends the measuring interval to 32.0 mg/dL (8.00 mmol/L) for serum/plasma and up to 160.0 mg/dL (40.00 mmol/L) for urine. You may configure the system to trigger an automatic repeat. Automatic repeat results will be flagged **Autorepeat**.

## **Detection Capability**

Detection capability was determined in accordance with CLSI Document EP17-A2.<sup>12</sup> The assay is designed to have a limit of blank (LoB)  $\leq$  limit of detection (LoD), and a LoD  $\leq$  1.0 mg/dL (0.25 mmol/L) for serum, plasma, and urine.

The LoD corresponds to the lowest concentration of calcium that can be detected with a probability of 95%. The LoD for the Atellica CH CA\_2 assay is 0.1 mg/dL (0.03 mmol/L) for serum and 0.2 mg/dL (0.50 mmol/L) for urine, and was determined using 480 determinations, with 240 blank and 240 low level replicates. The LoB is 0.0 mg/dL (0.00 mmol/L) for serum and 0.1 mg/dL (0.03 mmol/L) for urine.

Assay results obtained at individual laboratories may vary from the data presented.

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#### Precision

Precision was determined in accordance with CLSI Document EP05-A3. $^{13}$  Samples were assayed on an Atellica CH Analyzer in duplicate in 2 runs per day for 20 days (N  $\geq$  80 for each sample). The assay was designed to have within-laboratory precision of  $\leq$  3.0% CV for serum/plasma samples from 5.0–15.0 mg/dL (1.25–3.75 mmol/L) and  $\leq$  5.0% CV for urine samples 5.0–7.0 mg/dL (1.25–1.75 mmol/L) and  $\leq$  5.5% CV for urine samples from 10.0–26.0 mg/dL (2.50–6.50 mmol/L). The following results were obtained:

			Repeatability		Within-Lab Precisio	n
Sample Type	N	Mean mg/dL (mmol/L)	SD <sup>a</sup> mg/dL (mmol/L)	CV <sup>b</sup> (%)	SD mg/dL (mmol/L)	CV (%)
Plasma	80	6.1 (1.53)	0.07 (0.02)	1.2	0.10 (0.03)	1.7
Serum QC	80	6.5 (1.63)	0.07 (0.02)	1.1	0.10 (0.03)	1.5
Serum 1	80	10.2 (2.55)	0.07 (0.02)	0.7	0.08 (0.02)	0.7
Serum 2	80	14.1 (3.53)	0.09 (0.02)	0.6	0.10 (0.03)	0.7
Urine 1	80	6.2 (1.55)	0.12 (0.03)	2.0	0.14 (0.04)	2.3
Urine QC	80	11.2 (2.80)	0.10 (0.03)	0.9	0.13 (0.03)	1.1
Urine 2	80	12.1 (3.03)	0.08 (0.02)	0.6	0.12 (0.03)	1.0
Urine 3	80	24.0 (6.00)	0.11 (0.03)	0.4	0.13 (0.03)	0.5

<sup>&</sup>lt;sup>a</sup> Standard deviation.

Assay results obtained at individual laboratories may vary from the data presented.

## **Assay Comparison**

The Atellica CH CA\_2 assay is designed to have a correlation coefficient of  $\geq 0.950$  and a slope of  $1.0 \pm 0.05$  for serum/plasma and a correlation coefficient of  $\geq 0.950$  and a slope of  $1.0 \pm 0.1$  for urine compared to ADVIA® Chemistry 1800 CA\_2. Assay comparison was determined using the Deming linear regression model in accordance with CLSI Document EP09-A3.14 The following results were obtained:

Specimen	Comparative Assay (x)	Regression Equation	Sample Interval	Na	r <sup>b</sup>
Serum	ADVIA Chemistry 1800 CA_2	y = 1.02x - 0.1  mg/dL ( $y = 1.02x - 0.03 \text{ mmol/L}$ )	1.3–15.7 mg/dL (0.33–3.93 mmol/L)	100	1.000
Urine	ADVIA Chemistry 1800 CA_2	y = 1.03x - 0.2  mg/dL ( $y = 1.03x - 0.05 \text{ mmol/L}$ )	2.2–30.2 mg/dL (0.55–7.55 mmol/L)	107	0.997

<sup>&</sup>lt;sup>a</sup> Number of samples tested.

The agreement of the assay may vary depending on the study design, comparative assay, and sample population. Assay results obtained at individual laboratories may vary from the data presented.

b Coefficient of variation.

b Correlation coefficient.

## **Specimen Equivalency**

Specimen equivalency was determined using the Deming linear regression model in accordance with CLSI Document EP09-A3.<sup>14</sup> The following results were obtained:

Specimen (y)	Reference Specimen (x)	Regression Equation	Sample Interval	Na	r <sup>b</sup>
Plasma (lithium heparin)	Serum	y = 1.00x - 0.0  mg/dL (y = 1.00x - 0.00 mmol/L)	1.7–13.7 mg/dL (0.43–3.43 mmol/L)	76	0.972

a Number of samples tested.

Agreement of the specimen types may vary depending on the study design and sample population used. Assay results obtained at individual laboratories may vary from the data presented.

### Interferences

#### Hemolysis, Icterus, and Lipemia (HIL)

The Atellica CH CA\_2 assay is designed to have ≤ 10% interference from hemoglobin, bilirubin, and lipemia. Interfering substances at the levels indicated in the table below were tested in accordance with CLSI Document EP07-A2 using the Atellica CH CA 2 assay.<sup>15</sup>

Bias is the difference in the results between the control sample (does not contain the interferent) and the test sample (contains the interferent) expressed in percent. Bias > 10% is considered interference. Analyte results should not be corrected based on this bias.

Substance	Substance Test Concentration Common Units (SI Units)	Analyte Concentration mg/dL (mmol/L)	Percent Bias
Hemoglobin	1000 mg/dL (0.62 mmol/L)	5.8 (1.45)	3.4
	1000 mg/dL (0.62 mmol/L)	12.1 (3.03)	1.7
Bilirubin, conjugated	50 mg/dL (855 μmol/L)	5.9 (1.48)	1.7
	50 mg/dL (855 μmol/L)	12.3 (3.08)	0.0
Bilirubin, unconjugated	50 mg/dL (855 μmol/L)	5.9 (1.48)	-1.7
	50 mg/dL (855 μmol/L)	12.3 (3.08)	-1.6
Lipemia (Intralipid®)	1000 mg/dL (11.3 mmol/L)	5.9 (1.48)	6.8
	1000 mg/dL (11.3 mmol/L)	12.3 (3.08)	3.3

Assay results obtained at individual laboratories may vary from the data presented.

### **Non-Interfering Substances**

The following substances do not interfere with the Atellica CH CA\_2 assay when present in serum and plasma (lithium heparin) at the concentrations indicated in the table below. Bias due to these substances is  $\leq$  10%. These data were generated on the ADVIA Chemistry system with assay reaction conditions that are equivalent to those on the Atellica CH Analyzer.<sup>10</sup>

Substance	Substance Test Concentration Common Units	Analyte Concentration mg/dL (mmol/L)	Percent Bias
Omniscan <sup>a</sup>	1.50 mmol/L	5.9 (1.48)	≤ 10
OptiMARK <sup>a</sup>	1.00 mmol/L	5.9 (1.48)	≤ 10

<sup>&</sup>lt;sup>a</sup> Magnetic resonance contrast agents. Data were collected using the non-concentrated version of this assay which provides identical levels of all reaction components.

b Correlation coefficient.

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Assay results obtained at individual laboratories may vary from the data presented.

#### Standardization

The Atellica CH CA\_2 assay is traceable to an internal Siemens reference method (Inductively Coupled Plasma Atomic Emission), which uses reference materials from the National Institute of Standards and Technology (NIST), via patient sample correlation.<sup>10</sup>

Assigned values for calibrators are traceable to this standardization. 10

### **Technical Assistance**

For customer support, contact your local technical support provider or distributor. siemens.com/healthineers

#### References

- 1. Michaylova V, Ilkova P. Photometric determination of micro amounts of calcium with arsenazo III. *Anal Chim Acta*. 1971;53(1):194–198.
- 2. Clinical and Laboratory Standards Institute. *Protection of Laboratory Workers from Occupationally Acquired Infections; Approved Guideline—Fourth Edition*. Wayne, PA: Clinical and Laboratory Standards Institute; 2014. CLSI Document M29-A4.
- 3. Clinical and Laboratory Standards Institute. *Procedures for the Collection of Diagnostic Blood Specimens by Venipuncture; Approved Standard—Sixth Edition*. Wayne, PA: Clinical and Laboratory Standards Institute; 2007. CLSI Document GP41-A6.
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- 6. Heins M, Heil W, Withold W. Storage of serum or whole blood samples? Effects of time and temperature on 22 serum analytes. *Eur J Clin Chem Clin Biochem*. 1995;33(4):231-238.
- 7. Wilding P, Zilva JF, Wilde CE. Transport of specimens for clinical chemistry analysis. *Ann Clin Biochem*. 1977;14(6):301-306.
- 8. Wu AHB, ed. *Tietz Clinical Guide to Laboratory Tests*. 4th ed. St. Louis, MO: Saunders; 2006;198.
- 9. Clinical and Laboratory Standards Institute. *Defining, Establishing, and Verifying Reference Intervals in the Clinical Laboratory; Approved Guideline—Third Edition*. Wayne, PA: Clinical and Laboratory Standards Institute; 2010. CLSI Document EP28-A3c.
- 10. Data on file at Siemens Healthcare Diagnostics.
- 11. Wu AHB, ed. *Tietz Clinical Guide to Laboratory Tests*. 4th ed. St. Louis, MO: Saunders; 2006;204.
- 12. Clinical and Laboratory Standards Institute. *Evaluation of Detection Capability for Clinical Laboratory Measurement Procedures; Approved Guideline—Second Edition*. Wayne, PA: Clinical and Laboratory Standards Institute; 2012. CLSI Document EP17-A2.
- 13. Clinical and Laboratory Standards Institute. *Evaluation of Precision of Quantitative Measurement Procedures; Approved Guideline—Third Edition*. Wayne, PA: Clinical and Laboratory Standards Institute; 2014. CLSI Document EP05-A3.

- 14. Clinical and Laboratory Standards Institute. *Measurement Procedure Comparison and Bias Estimation Using Patient Samples; Approved Guideline—Third Edition*. Wayne, PA: Clinical and Laboratory Standards Institute; 2013. CLSI Document EP09-A3.
- 15. Clinical and Laboratory Standards Institute. *Interference Testing in Clinical Chemistry; Approved Guideline—Second Edition*. Wayne, PA: Clinical and Laboratory Standards Institute; 2005. CLSI Document EP07-A2.

## **Definition of Symbols**

The following symbols may appear on the product labeling:

Symbol	Symbol Title and Description
Ti .	Consult instructions for use
Rev. 01	Version of instructions for use
siemens.com/healthcare siemens.com/document-library	Internet URL address to access the electronic instructions for use
Rev. REVISION	Revision
$\triangle$	Caution Consult instructions for use or accompanying documents for cautionary information such as warnings and precautions that cannot, for a variety of reasons, be presented on the medical device.
	Biological risks Potential biological risks are associated with the medical device.
(E)	Corrosive
*	Dangerous to environment
<b>(1)</b>	Irritant Oral, dermal, or inhalation hazard
	Inhalation hazard Respiratory or internal health
	Flammable Flammable to extremely flammable
	Oxidizing
	Explosive

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Symbol	Symbol Title and Description
	Toxic
	Compressed gas
*	Keep away from sunlight Prevent exposure to sunlight and heat.
<u>*</u>	Up Store in an upright position.
A CONTRACTOR OF THE PARTY OF TH	Do not freeze
2°C 1 8°C	Temperature limit Upper and lower limits of temperature indicators are adjacent to the upper and lower horizontal lines.
	Handheld barcode scanner
IVD	In vitro diagnostic medical device
$\sum_{n=1}^{\infty} (n)$	Contains sufficient for <n> tests  Total number of IVD tests the system can perform with the IVD kit reagents appears adjacent to the symbol.</n>
RxOnly	Prescription device (US only) Applies only to United States-registered IVD assays. CAUTION: Federal (USA) law restricts this device to sale by or on the order of a licensed healthcare professional.
2	Mixing of substances Mix product before use.
	Reconstitute and mix lyophilized product before use.
→   ←	Target
← →	Interval
***	Legal Manufacturer
EC REP	Authorized Representative in the European Community
$\square$	Use-by date Use by the designated date.
LOT	Batch code

Symbol	Symbol Title and Description
REF	Catalog number
	Recycle
PRINTED WITH SOYINK	Printed with soy ink
CE	CE Mark
<b>(€</b> <b>(€</b> 0088	CE Mark with notified body ID number Notified body ID number can vary.
YYYY-MM-DD	Date format (year-month-day)
CHECKSUM	Variable hexadecimal number that ensures the Master Curve and Calibrator definition values entered are valid.
UNITS C	Common Units
UNITS SI	International System of Units
MATERIAL	Material
MATERIAL ID	Unique material identification number
CONTROL NAME	Name of control
CONTROL TYPE	Type of control

# **Legal Information**

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