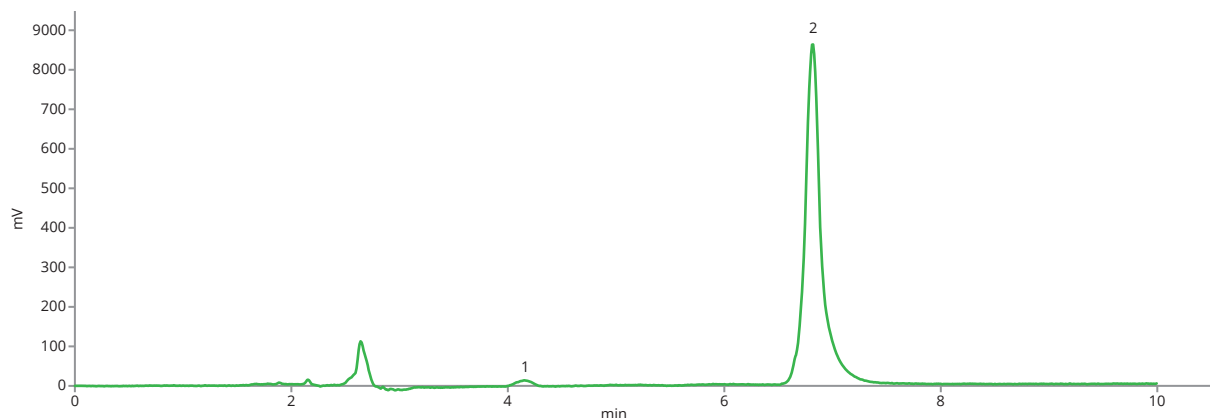
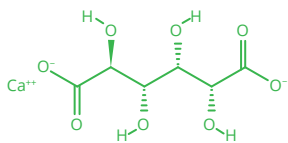


## Calcium gluconate in injection solution

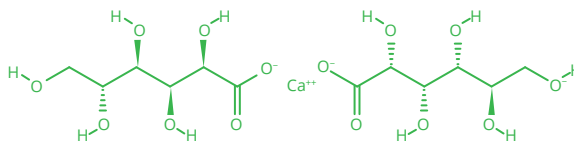
Calcium is found naturally in the body and is necessary for the normal function of muscles and nerves. It is needed to make the heart work properly and for blood to clot. In injections it is used in the form of calcium gluconate salt. The presented method shows the in-process control of calcium gluconate and stabilizer calcium saccharate in injection solution.



Analysis of test solution on ASTRA® Diol column



Calcium saccharate



Calcium gluconate



## Calcium gluconate in injection solution

<b>Column</b>	ASTRA® Diol, 3.0 µm
<b>Dimensions</b>	150 mm × 4.6 mm
<b>Part number</b>	AST-5858-IK46
<b>Mobile phase</b>	ACN : water 90/10 (v/v) + 0.05 % H <sub>3</sub> PO <sub>4</sub> (pH = 2.5) Isocratic elution
<b>Flow rate</b>	1.0 mL/min
<b>Temperature</b>	20 °C
<b>Detection</b>	UV at 230 nm with reference correction at 250 nm
<b>Injection volume</b>	10 µL
<b>Analytes</b>	<b>1. Calcium saccharate, CAS No. 5793-88-4</b> <b>2. Calcium gluconate, CAS No. 299-28-5</b>