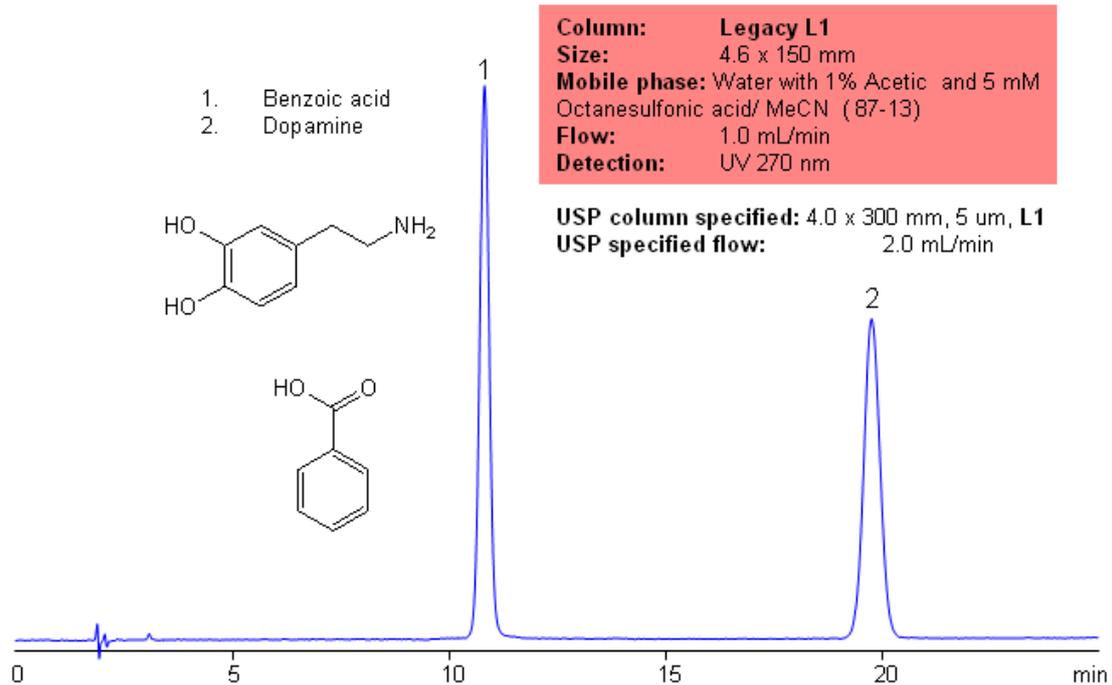


## USP Analysis of Dopamine Using a Legacy L1 column



Application Notes: Dopamine is a naturally occurring neurotransmitter found in the brain. Dopamine is a well studied compound because dopamine is an important neurotransmitter known to regulate many functions from pain response to behavior disorders. According to USP methods, dopamine hydrochloride contains not less than 98% and not more than 102% dopamine hydrochloride calculated on the dried basis. The USP HPLC method for the separation of hydrocortisone was developed on Legacy L1 column according to the US Pharmacopeia methodology. L1 classification is assigned to reversed-phase HPLC column containing C18 ligand. Support for the material is spherical silica gel with particles size 3-10  $\mu\text{m}$  and pore size of 100-120  $\text{\AA}$ . Resolution between critical pairs corresponds to rules and specifications of USP.

Application Columns: Legacy L1 C18HPLCcolumn

Application compounds: Dopamine hydrochloride

Mobile phase: Water with 1% acetic and 5mM octanesulfonic acid/MeCN

Detection technique: UV

Reference: USP35: NF30

SIELC's family of Legacy columns is based on the United States Pharmacopeia's (USP) published chromatographic methods and procedures. Numerous brands have columns used in USP reference standards and methods. USP has created various designations to group together columns with similar types of packing and properties in the solid phase. SIELC's Legacy columns adhere to these strict requirements and properties, allowing you to easily replace older columns that are no longer available without needing to significantly modify your method or SOPs.

## Method Parameters

<b>Column</b>	Legacy L1, 4.6x150 mm, 5 µm, 100 Å
<b>Mobile Phase</b>	Water with 1% Acetic and 5 mM Octanesulfonic acid/ MeCN ( 87-13)
<b>Flow Rate</b>	1.0 mL/min
<b>Detection</b>	UV, 270 nm

Quelle: <https://sielc.com/Application-USP-Analysis-of-Dopamine-Using-a-Legacy-L1-column>