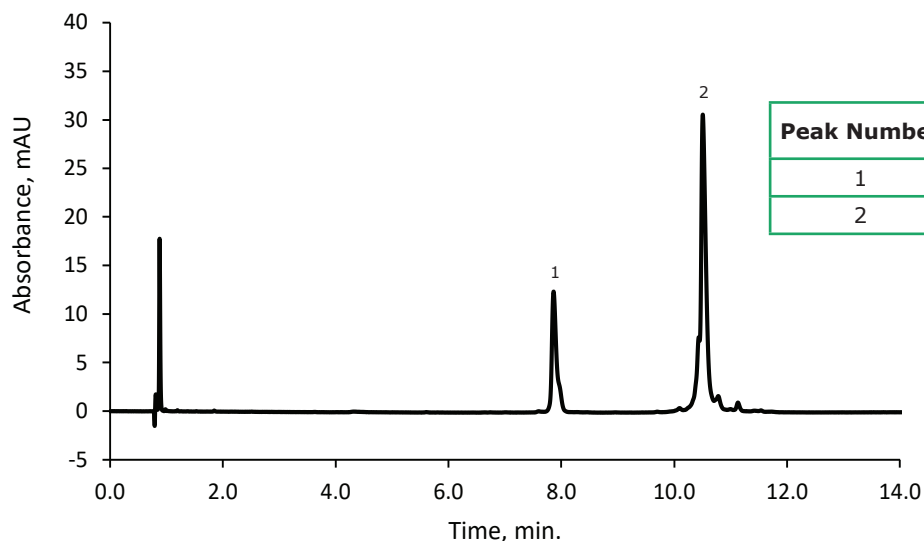


# UHPLC Analysis of Reduced IgG1 on BIOshell™ IgG 1000 Å C18



Peak Number	Compound	Concentration $\mu\text{g/mL}$
1	Trastuzumab Light Chain	400
2	Trastuzumab Heavy Chain	400

## Conditions:

<b>column:</b>	BIOshell™ IgG 1000 Å C18, 15 cm x 2.1 mm I.D., 2.7 $\mu\text{m}$
<b>mobile phase:</b>	[A] Water (0.1% v/v TFA); [B] Acetonitrile (0.1% v/v TFA)
<b>gradient:</b>	30% B to 40% B in 14.0 min
<b>flow rate:</b>	0.4 mL/min
<b>column temp.:</b>	80 °C
<b>detector:</b>	UV 280 nm, PDA
<b>injection:</b>	2 $\mu\text{L}$
<b>sample:</b>	reduced Trastuzumab, 400 $\mu\text{g/mL}$ , water with 1.2M Guanidine/0.1% TFA

## Description:

The 2.7  $\mu\text{m}$  BIOshell™ IgG 1000 Å C18 is ideal for analysis of monoclonal antibodies such as trastuzumab. Trastuzumab is a monoclonal antibody that is used primarily to treat breast cancer, but can also be used in the treatment of stomach and esophageal cancers. 2 mg/mL trastuzumab was incubated at 60 °C for 1 hour using 20 mM DTT, 6 M Guanidine, and 50 mM Tris pH 7.8. This separation of the light and heavy chains is useful for quantification and analysis.

## Materials:

Product Part Number	Description
270733	Water
34851	Acetonitrile
302031	TFA
582703-U	BIOshell™ IgG 1000 Å C18 2.7 $\mu\text{m}$ 15 cm x 2.1 mm