



VORNIA BIOMATERIALS

## Certificate of Analysis for Thiol-Modified Hyaluronic Acid

PRODUCT CODE: HA-SH High SH LOT NUMBER: HASH-H SH0116

EXPIRY DATE: 09/2017

### Quality Control Analysis

Characteristic	Specification	Result
Degree of substitution for thiolated HA [%]	>80%	95%
Free Thiol Fraction [%]	>80%	84%
Thiol content [mmol/g]	1.6 mmol/g	1.68 mmol/g
Purity [%]	>95%	98%
pH after rehydration in PBS	Neutral (6.5-7.5)	6.5
Appearance	White foam / powder	White foam
Water solubilisation time [min]	Should dissolve within 30 minutes	10 min under vortex

**NOTE:** This product is packaged in 2 mL clear glass vials under argon. Do not expose to air until use as crosslinking will begin spontaneously.

Name: Sigen A

Signature:

Date: 05.09.2016