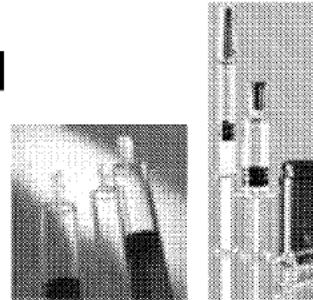


# Lucentis – Pre-filled syringes

*Pharmaceutical development aspects*

PFS "fumata bianca" Workshop

████████████████████  
December 17, 2007



 NOVARTIS


## Contents

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- ※ Current knowledge on GNE PFS
- ※ Guidelines / pharmacopoeial references to
  - Silicon leaching
  - Particle counts
- ※ Hurdles and risks

# Data about GNE Lucentis PFS

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Technical R&D

## Lucentis syringe in development by Genentech

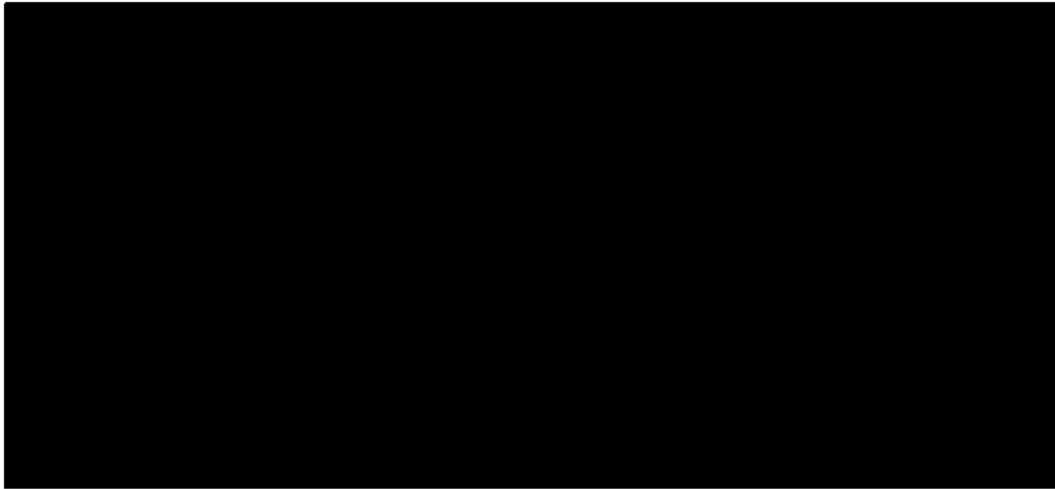


| <i>Component</i> | <i>Material</i> | <i>Requirement</i> |
|------------------|-----------------|--------------------|
| Barrel           |                 |                    |
| Tip Cap          |                 |                    |
| Plunger Stopper  |                 |                    |
| Plunger Rod      |                 |                    |


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## Lucentis syringe in development by Genentech



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