Polyethylene

Bormed™ HE2581-PH

We confirm that this product fulfils the requirements on materials used for the manufacturing of articles or components of articles intended for medical use as described in:

Council of Europe Material complies with the following European Pharmacopoeia monographs:

Monograph 3.1.3. Polyolefins

Monograph 3.1.5. Polyethylene with additives for containers for parenteral

preparations and for ophthalmic preparations

Tests are made according to the current Pharmacopoeia edition at the time of the

testing: 10th edition (2020), and supplement 10.5 (07/2021).

Monograph 3.2.2. Plastic containers and closures for pharmaceutical use: This monograph relates specifically to the <u>container and closure system</u> and does not contain tests that are required for compliance assessment of the raw materials used for said container and closures. The composition of the product is in

compliance with this monograph.

Germany The product follows the VDI 2017 Guideline on "Medical Grade Plastic" that

covers the requirements for change management, quality management, supply

security and support for regulatory requirements.

USAMaterial has passed the following United States Pharmacopeia tests:

Biological reactivity tests - in vitro <87>: Cytotoxicity (Elution test)

Biological reactivity tests - in vivo <88>: Class VI - 70 °C

Physicochemical tests for plastics according to <661>, so far applicable to polymer pellets (with no reference to the specific surface area requirements), including heavy metals, buffering capacity and non-volatile residue test with

purified water, alcohol and hexane extracts.

Plastic materials of construction <661.1>: Identification, physicochemical and extractable metals (as listed in the chapter) tests. Plastic additive tests are done

according to Borealis' internal methods.

Tests are made according to the current Pharmacopeia edition at the time of the

testing (USP 36/41/2021).

Additional testing Material has been tested according to the following ISO 10993 biological tests, in

the extent applicable for polymer pellets:

Cytotoxicity (ISO 10993-5)

Acute systemic toxicity (ISO 10993-11)

Skin irritation / intracutaneous reactivity (ISO 10993-10)

Dermal sensitization (ISO 10993-10) Hemocompatibility (ISO 10993-4)

Tests are made according to the current ISO 10993 edition at the time of the

testing (2018).

Elemental impuritiesDuring the manufacturing process of this product, we neither use nor intentionally

incorporate any Class 1, 2A, 2B or 3 elements as listed in the ICH Q3D(R2)

Guideline on Elemental Impurities (May 2022).

DMF number Material has been assigned the FDA Drug Master File number(s):

DMF 027656

Additional information If a customer wishes to take advantage of the pre-notice period in case of deletion

or modification of Bormed grades, such pre-notice period needs to be included in

Technical Delivery Specifications.

This edition of the document supersedes any previous editions.

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STATEMENT ON COMPLIANCE TO REGULATIONS ON MEDICAL USE

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Prepared by Borealis, Group Product Stewardship

Disclaimer

The product(s) mentioned herein are not intended for use as medical implant material or implantable medical devices and we do not support their use for such applications.

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