



**BỘ Y TẾ**  
**VIỆN KIỂM NGHIỆM THUỐC TRUNG ƯƠNG**  
MINISTRY OF HEALTH  
NATIONAL INSTITUTE OF DRUG QUALITY CONTROL

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**CỘNG HÒA XÃ HỘI CHỦ NGHĨA VIỆT NAM**  
**Độc lập - Tự do - Hạnh phúc**  
SOCIALIST REPUBLIC OF VIET NAM  
Independence - Freedom - Happiness



VILAS 087

**VIETNAMESE PHARMACOPOEIA REFERENCE SUBSTANCE CERTIFICATE**

**CELECOXIB**

Control No. C0226376

	CAS Number	169590-42-5
	Molecular formula	C <sub>17</sub> H <sub>14</sub> F <sub>3</sub> N <sub>3</sub> O <sub>2</sub> S
	Molecular weight	381.4
The "as is" content <b>99.8 % C<sub>17</sub>H<sub>14</sub>F<sub>3</sub>N<sub>3</sub>O<sub>2</sub>S<sup>(1)</sup></b>		Measurement uncertainty <b>1.2 %<sup>(2)</sup></b>

<sup>(1)</sup> Assigned value

The content on an "as is" basis is the unweighted mean of the quantitative data obtained by the HPLC method, as determined by two laboratories. The reference value is traceable to the standard Celecoxib USPRS Lot. R081P0.

<sup>(2)</sup> Measurement uncertainty

Expanded uncertainty is calculated according to the ISO 17034: 2016 with an 95 % confidence level (k = 2).  
Uncertainty is based on the combined uncertainty, including uncertainties of characterization and homogeneity testing.

Appearance

A white, crystalline powder

Direction for use

Do not dry before use

Storage condition

Keep container tightly closed and protected from light, preferably at the temperature 2–8 °C.

Intended use

Use for identification and quantification.

Use for laboratory as quality control standard (or in method development for analytical techniques).

*The producer certifies that this certified reference material meets the specifications stated until the date of retest, provided it is stored unopened at an indicated storage condition herein. The warranty does not apply to the bottles stored after opening*

*Retest date: Three years after date of release.*

Date of release: 20<sup>th</sup> March 2026

Director

**PHÓ VIỆN TRƯỞNG**

**VIỆN KIỂM NGHIỆM THUỐC TRUNG ƯƠNG**

**Lê Quang Thảo**

**Additional informations**

Water (KF) 0.07 %

Related substances Related compound A: 0.02 %

(HPLC) Related compound B: 0.04 %

Unspecified impurities: each ≤ 0.02 %

Total impurities: 0.09 %

Visit the flowing link to see the updated information of reference substances: <http://www.nidqc.gov.vn>