



PCG[®] I-GBS REAL-TIME PCR KIT



Easy-to-use concept

- The mixture of PCR Master Mix and Taq DNA Polymerase can be generated and used for up to 1 month
- PCR running time is about 2 hours



High sensitivity

Ensure excellent sensitivity up to 100 CFU/mL



High specificity

Secured by targeting specific DNA sequence of *cfb* gene
In silico analysis of 11 GBS variants (Ia, Ib, Ic, II, III, IV, V, VI, VII, VIII, ND)

ORDER INFORMATION

Product	Package	REF
PCG [®] I-GBS Real-time PCR Kit	50 tests	PI2600050

PCG® I-GBS Real-time PCR Kit is recommended to detect Group B *Streptococcus* GBS in vaginal-rectal swab for all women during pregnancy between 36 0/7 and 37 6/7 weeks.



PROCESS

PCR Master Mix Preparation



DNA Extraction



Real-time PCR



SPECIFICATION

Regulatory Status	IVD
Intended User	For professional use in laboratories with trained staff
Technology	Multiplex Real-time PCR using TaqMan Probes
Type of Analysis	Qualitative
Target Sequence	<i>cfb</i> gene of GBS
Analytical Specification	In silico analysis of 11 GBS variants (Ia, Ib, Ic, II, III, IV, V, VI, VII, VIII, ND), 100%
Analytical Sensitivity (LOD)	100 CFU/mL
Cross-reactivity	No cross-reactivity with 12 other species (<i>S.aureus</i> , <i>E. faecium</i> , <i>E. coli</i> , <i>K.pneumoniae</i> , <i>A. hydrophila</i> , <i>A. baumannii</i> , <i>P. aeruginosa</i> , <i>E. faecalis</i> , <i>S. mitis</i> , <i>C. albicans</i> , <i>C. glabrata</i> , <i>C. tropicalis</i>)
Repeatability	Coefficient of variation (CV) $\leq$ 5%
Intermediate precision	Coefficient of variation (CV) $\leq$ 5%
Extraction/Inhibition Control	Proper sampling, DNA extraction efficiency and PCR inhibition control by Internal Control (<i>beta-Actin</i> gene)
Validated Specimen	Vaginal - rectal swab
Validated Extraction Methods	PCG® MagBead DNA Extraction Kit
Instruments	QuantStudio 5 Real-time PCR System QuantStudio 7 Real-time PCR System CFX96 Real-time PCR Detection System
Required Detection Channels	FAM: Detect GBS HEX/VIC: Detect Internal Control
Storage	-20°C(± 5°C), 12 months

PHACOGEN FACTORY ONE MEMBER LIMITED COMPANY

📍 Unit 6E, RBF, VSIP Bac Ninh, Vietnam

🌐 <https://phacogen.com>

☎ + 84.979.243.075

✉ **Technical support:** support@phacogen.com

✉ **Sales order:** sales@phacogen.com