,	questionnaire about BE stu Country A	Country B	Country C	Country D	Country E	Country F
<b>Q1</b> Dosage form	Yes/in vivo ·need clinical study(MA) to change dosage form ·Not appricable to biowaiver	Yes/in vivo ·need BE study to change dosage form ·Class I, not narrow therapeutic drug, and dissolution rate is >85% within 15min	Yes/other ·need clinical study to change from fine granule to tablet, narrow therapy index, modified-release ·No change to the percentage and rapid of API in to system circulation	Yes/in vivo or vitro ·need BE study to change modified-release ·refer to SUPAC/ASEAN varidation guideline ·BCS Class I		Yes/in vivo or vitro ·need BE study(MA) to depend on BCS Class of API ·need BE study to modified- release ·BCS Class I & III
Q2 Strength	Yes/in vivo or vitro ·basically, need BE study to change strength ·change composition is low	•narrow therapeutic index	Yes/other ·need clinical study to higher strength, narrow therapy index, controlled release ·in vitro study: lower strength, same site and same formulation ratio ·N/A	Yes/in vivo or vitro •depend on dose proportionate •BCS Class I		Yes/in vivo or vitro ·need BE study(MA)to depend on BCS Class of API ·need to BE study to the highest strength ·need BE study to modified- release ·BCS Class I & III
<b>Q3</b> Formulation change	Yes/in vivo ·need clinical study to formulation change ·Not appricable to biowaiver	Yes/in vivo ·need BE study to major formulation change ·in vitro study need to minor formulation change	Yes/other ·in vitro study: change excipient component, narrow therapy index, ClassIV, coating weight ·No criteria of justification on BE waiver	Yes/in vivo or vitro? •refer to SUPAC/ASEAN varidation guideline •BCS Class I	Yes/in vivo or vitro •need BE study(MA) to major change	Yes/in vivo or vitro ·need BE study(MA) to new excipient change ·need to in vitro study to same function excipient change(SUPAC GL) ·need BE study to modified- release ·BCS Class I & III
<b>Q4</b> API change	Yes/in vitro ∙need in vitro study	Yes/in vivo or vitro ·need BE study to narrow therapeutic drug ·Normally, need in vitro study	Yes/other ·need BE study to mfg. site change ·in vitro study: process change ·No criteria of justification on BE waiver	Yes/in vivo or vitro? •refer to SUPAC/ASEAN varidation guideline	Yes/in vitro •need in vitro study to mfg. site/process of API	Yes/in vivo or vitro ·refer to ASEAN varidation guideline ·need BE study(MA) to API form change depend on BCS Class ·form change of BCS Class I & III API
<b>Q5</b> Excipient change	Yes/in vivo or vitro •need BE study or in vitro study according to change level	Yes/in vivo or vitro ·need BE study or in vitro study according to change level ·	Yes/other ·in vitro study: change excipient component, narrow therapy index, ClassIV, coating weight ·No criteria of justification on BE waiver	Yes/in vivo or vitro? •refer to SUPAC/ASEAN varidation guideline		Yes/in vivo or vitro •refer to SUPAC/ASEAN varidation guideline •BCS Class I & III
<b>Q6</b> Mfg. site	Yes/in vitro or No ·need in vitro study or batch analysis according to change level ·	Yes/in vivo or vitro ·need BE study or in vitro study according to change level ·	Yes/other •need BE study •No criteria of justification on BE waiver	Yes/in vitro •refer to SUPAC/ASEAN varidation guideline	Yes/in vitro ∙need in vitro study	Yes/in vivo or vitro ·need in vitro study to same formulation and mfg. equipment/process ·BCS Class I & III
<b>Q7</b> Batch size	Yes/in vitro or No ·in vitro study: more than 10 times ·batch analysis: less than 10 times ·	Yes/in vitro or No ·in vitro study: more than 10 times ·batch analysis: less than 10 times ·	Yes/in vitro ·in vitro study: more than 10 times ·batch analysis: less than 10 times ·No criteria of justification on BE waiver	Yes/in vitro •refer to SUPAC/ASEAN varidation guideline	Yes/in vitro ∙need in vitro study	Yes/in vitro •need in vitro study
<b>Q8</b> Mfg. equipment	Yes/in vitro or No ·in vitro study: influence on product quality ·batch analysis: no influence on quality	Yes/in vitro or No ·in vitro study: influence on product quality ·batch analysis: no influence on quality ·	No	Yes/in vitro ·refer to SUPAC/ASEAN varidation guideline	Yes/in vitro •need in vitro study	Yes/in vitro or No ·need in vitro study to mfg. principle change or major process change ·Normally no need
<b>Q9</b> Mfg. process	Yes/in vivo or vitro or No ·need BE study or in vitro study or batch analysis according to change level	Yes/in vivo or vitro ·need BE study or in vitro study according to change level ·	Yes/other •in vitro study •No criteria of justification on BE waiver	Yes/in vitro? •refer to SUPAC/ASEAN varidation guideline	Yes/in vivo or vitro •need BE study(MA) to major change	Yes/in vivo or vitro ·refer to SUPAC/ASEAN varidation guideline ·BCS Class I & III