

**Central Administration of Pharmaceutical Products General Administration For Stability** 

# Guidance for File Content of Stability study dossier Year 2024

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# • Scope:

This guidance is applied on submission data required for stability study dossier for local and imported pharmaceutical products. Ensuring that submissions are consistent, complete, and adhere to EDA standards, which ultimately facilitates quicker approvals and market access.

## • Objective:

This guidance will help applicant company to prepare a well-organized dossier for submission to GA-Stab that eventually will benefit both the applicants and the regulatory evaluators. Using this standardized dossier format helps streamline the submission and evaluation process, ensuring that all essential information is presented clearly and efficiently, reducing misunderstandings and the need for additional clarifications, ultimately leading to a more efficient approval process for human pharmaceutical products.

# Stability file Content for Human Pharmaceutical Products

Ite Document m Name	Description and requirements (if applicable)	Under- Registration	Re- Registration	Variation	Registration License Requirements
					or post approval requirements
	Regulatory Documents	s Fold	er		
For Under-re	g.:				
	reg. (i.e. Box) approval				
- Naming app					
- PV approva		$\sqrt{}$	NA	NA	NA
- Pricing app		V	IVA	IVA	INA
- Extension a	pproval (If needed)				
	ale with its attached SmPC (Summary of product				
characteristic	,				
	/ Re-reg. / Post approval:				
_	e with its attached composition				
	re-reg. approval and / or Transfer letter for expired		,	,	
license		NA	V		√
	pproval (If needed)				
	ale with its attached SmPC (Summary of product				
characteristic	,				
EDA reports:		If applicable			
	ability approval(s) with its attachment(s)	11 applicable			
	ation approval(s) with its attachment(s)				
	t of primary batch(es) no. / type / order				
	report (must be for the submitted batch(es)) with its				
attachment(s)					
- Quality app	roval with its attached composition and FPS				

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study dossier



FP manufacture - Annex for properformed test( - Both contract	oduct name, strength and dosage form, and (s) and annex must be legalized (bank signatures	If applicable	If applicable	If applicable	If applicable
and EDA legal affairs)  - Payment code / Receipt copy: in case of variation (from last stability approval / reg. license) as shelf-life extension, storage conditions change, in-use storage conditions and / or shelf-life				In case of shelf-life extension/ storage condition variation/ In use addition (after opening/ after reconstitutio n/ after dilution)	NA
Commitment for proposed storage conditions/ state shelf life	<ul> <li>(Annex II)</li> <li>Should be presented by Applicant company signed and stamped</li> <li>Submit justification for proposed temperature as Egypt is located in climatic zone IV A with reference</li> </ul>	<b>V</b>	If applicable	If applicable	If applicable
COR	<ul> <li>(Annex III)</li> <li>Certificate of responsibility, signed from (Q.C. analyst, Q.C. Head &amp;Q. A Head)</li> <li>Should be presented by Stability testing site (signed and stamped)</li> </ul>	V	V	V	<b>√</b>



Declaration letter for API manufacturer	<ul> <li>(Annex IV)</li> <li>Should be presented by Applicant company (signed and/stamped)</li> <li>Manufacturer of each Active ingredient entering in the manufacture of finished product Should be mentioned</li> <li>Should mention finished Batch No. on which stability study is performed and country of origin</li> <li>Batch Size/batch type should be mentioned</li> <li>should be the same as stated in CTD Section3.2. S.2.1: Drug Substance Manufacturer(s) in case of products imported from reference countries or in products in quality module format is a requirement for registration)</li> </ul> Technical Documents	Folde	r	√ ·	<b>V</b>
Compositio n	-Refer to Annex I for full details	V	V	٧	V
Brand leaflet (i.e., Generic reference product SmPC (Summary of product characteristi cs)	Brand leaflet / SmPC in English with highlighted shelf life, storage conditions, in- use (after opening/after dilution/after reconstitution) shelf life and storage conditions, solvents used and their volume (if applicable), diluents used and their volume (if applicable)/package	√ ·	V	V	V
Post approval stability protocol and stability commitment	<ul> <li>(Annex X)</li> <li>Commitment for continuing stability studies of:</li> <li>1. Production batches+ proposed protocol</li> <li>2. Long term on same batches submitted for accelerated studies + proposed protocol</li> <li>On-going stability studies+ proposed protocol</li> </ul>	<b>V</b>	<b>V</b>	<b>V</b>	V



Notice to applicant

Declaration letter	Declaration letter from License Holder stating the shelf life, storage conditions, pack and in use in case of missing information in CPP	<b>V</b>	V	V	1
Finished product specifications (P.5.1)	**(Annex V)  • should be presented by stability testing site signed and stamped  • Should clearly include product name, dosage form, concentration (if applicable)  • Should include list of tests, acceptance criteria and reference for both analytical procedures and acceptance criteria  • Should include method of analysis for each mentioned test  • Should include the following:  ✓ Physical analysis (Color, shape, size. Scoring, justification for mottling is required) for solid dosage form  ✓ (clarity, homogeneity, opalescence, color for liquid dosage form  ✓ Chemical analysis;  Should include assay of active ingredient(s), quantitation of impurities and related substances, and assay of preservative(s) and/or antioxidant(s) (when applicable) antibiotics Microbiological analysis (when applicable)  ✓ Biological analysis (when applicable) e.g.: enzymes /Biocides.  ✓ Performance test: dissolution viscosity, antiseptic effectiveness test (antiseptic and disinfectant test)  Notes:  • Any skip test should be mentioned as a footnote  • Limit for any test should be specified as release and /or shelf specs (only)  • Residual solvents should be included (if present in product formula) (release specifications)  *(it should be the same as stated in CTD Section 3.2.P.5.1: Drug Product Specification(s) in case of products imported from reference countries or in products in which the CTD format is a requirement for registration)				

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#### N.B:

The required tests for each dosage form should

\*Comply with the "EDA Guidelines for technical assessment of finished pharmaceutical products for human use files".

Comply with TRS1010 Annex 10 Stability testing of active pharmaceutical ingredients and finished pharmaceutical products".

ICHQ6A specifications: Test procedures and acceptance criteria for new drug substances and new drug products Chemical substances-scientific guidelines

### • Required stability Sections in quality module

(required in case of products imported from reference countries or in products in which the CTD format is a requirement for registration)

Stability Study Results Folder	P-Part	<ul> <li>Section 3.2.S.2.1: Drug Substance Manufacturer(s)</li> <li>Section 3.2.P.1: Description and Composition of the Drug Product</li> <li>Section 3.2.P.3: Drug Product Manufacturer(s)</li> <li>Section 3.2.P.5.1: Drug Product Specification(s)</li> <li>Section 3.2.P.5.2 Analytical procedure</li> <li>Section 3.2.P.5.3 Validation of analytical procedure</li> <li>Section 3.2.P.5.4: Batch Analyses</li> <li>Section 3.2.P.5.5: Characteristics of impurities</li> <li>Section 3.2.P.5.6: Justification of Specification(s)</li> <li>Section 3.2.P.7: Container Closure System</li> <li>Section 3.2.P.8.1: Stability Summary and Conclusion</li> <li>Section 3.2.P.8.2: Post-approval Stability Protocol and Stability</li> </ul>		V	V
		* *			



	Required DMF Sections or submit    CFB containing retest region   Property   Proper	$\sqrt{}$	NA	NA	NA
	valid CEP containing retest period and				
	container closure system:				
	• Section 3.2.S.2.1: Manufacturer(s)				
	• Section 3.2.S.3.2 Impurities				
	• Section 3.2.S.4.1: Specifications				
	• Section 3.2.S.4.2: Analytical				
	procedure				
<del>  -</del>	• Section3.2.S.4.3: Validation of				
S-Part	analytical procedure				
\ <u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u>	• Section 3.2.S.4.4: Batch analysis				
	• Section 3.2. S.4.5Justification of				
	<ul><li>Specifications</li><li>Section 3.2. S.6: Container closure</li></ul>				
	system				
	• Section 3.2. S.7.1: Stability				
	Summary and Conclusions				
	• Section 3.2. S.7.2: Post-approval				
	Stability Protocol and Commitment				
	• Section 3.2. S.7.3: Stability Data				
	Should be presented by stability testing	V	V	V	V
	site signed and stamped for the batch of				
AP	finished product on which stability study is				
or or	done				
analysis of stability batches for API	Should include product name, batch				
[ch	number, manufacturing and expiry date,				
pa	batch type / batch size.				
lity	Should include results within release				
abi	specifications				
l st	• It should include the following:				
l o s	✓ Physical analysis				
ysi	✓ Chemical analysis;				
lmal	Should include identification & assay of activeing redient(s), impurities and related				
	substances, and content of preservative(s)				
Certificate of	and/or antioxidant(s) (when applicable)				
fica	✓ Microbiological analysis				
	✓ Biological analysis (when applicable)				
ျ	✓ Performance test (dissolution,				
	disintegration, viscosity				





			1		
	Should be presented by stability testing				
	site signed and stamped				
	• Should clearly state product name,				
	dosage form, concentration (if applicable),	$\sqrt{}$	$\sqrt{}$	. 1	. 1
	batch numberon which stability study was done, manufacturing and expiry		,	V	V
	date, date of starting stability study in				
	case of being different than				
	manufacturing date, study conditions,				
	testing intervals and product pack in				
	details batch size and batch type.				
	• Should include results within shelf-life				
	specifications				
	• Should include the following:				
	✓ Physical analysis				
	✓ Chemical analysis:				
	✓ Microbiological analysis				
	✓ Biological analysis (when applicable)				
(8)	• May include (when applicable):				
]  -  -  -	In case of <u>In-use stability study</u> (A				
tab	minimum of two batches, at least pilot scale				
ıdy	batches, should be subjected to the test. At				
str	least one of the batches should be chosen				
lity	towards the end of its shelf life.)				
Stability study table(s)	• Antimicrobial preservative effectiveness				
St	test in case of presence of preservatives.				
	Bulk stability studies (if present):  Consideration should also be given to hold.				
	Consideration should also be given to hold-				
	time studies of bulk products, e.g. coated tablets prior to final packaging. For				
	example, when the bulk product may be				
	stored for a period exceeding 30 days before				
	being packaged and/or shipped from a				
	manufacturing site to a packaging site, the				
	stability of the bulk product in the intended				
	bulk container should be evaluated and				
	studied.				
	Long term stability studies including     Lolding time (if greened)				
	holding time (if present).				
	Statistical analysis data should be submitted if applicable.				
	<ul><li>submitted if applicable</li><li>Justification of any significant should be</li></ul>				
	submitted if applicable				
	<ul> <li>Multi container volume (Packaging</li> </ul>				
	Material)				



Г	1	1	ı	1	1
	<ul> <li>In case of applying matrixing or bracketing; the design table, justification of the design, the design table data/ statistical analysis and data if applicable. (Annex IX)</li> <li>Summary of study should be submitted according to annex VIII</li> <li>Notes</li> <li>Dissolution results should be expressed as (average and range of individual results) for each individual time interval</li> <li>Any out of specifications results should be scientifically justified</li> <li>Any out of trend should be scientifically justified-* Data should be presented either in tables, graphs or both.</li> <li>Any significant change should be justified</li> <li>Any skipped test Should be scientifically</li> </ul>				
	justified  • Most undeted managraph for finished				
3-Method References + commitments	<ul> <li>Most updated monograph for finished product should be submitted.         In case of Combination Products:         If there's no pharmacopeia reference for combination finished product, finished monograph for each active ingredient should be submitted /impurities limits should comply with ICH guidelines for each API only if impurities are as a result of API interaction, it should be calculated according to least API amount (worst case) TRS 929 annex 5         • Commitment from stability testing site that method of analysis submitted for assay/ related/anti-oxidant/preservative is the same method of analysis submitted and validated in CADC (last updated guidelines for file assessment for pharmaceutical products for human use).         • If a test is done in stability only, all documents should be submitted (procedure/validation and results), and justification of adopting new methods.     </li> </ul>	V	V	<b>V</b>	<b>V</b>



	1		 ,	,	
ږ		<ul> <li>Should include product name,</li> </ul>	 $\sqrt{}$		
Charts stured eference		batch number and injection date/time			
ocol & Chart manufactured m non-referen		Should include chromatograms of			
[5 E C		assay of active ingredient(s), quantitation			
& £ [-]	Si	of impurities and related substances, and			
sol & anuf non	chromatograms	content of preservative(s) and/or			
otoco	1gc	antioxidant(s) (when applicable)/			
ly II.	late	` ' ` ` ` ` ` ' ' ' ' ' ' ' ' ' ' ' ' '			
n p ca	l El	dissolution			
tio plant in the p	lh.	<ul> <li>Should include 3 injections for</li> </ul>			
dat of po	_	standard and test at each time interval			
lig of in	ssay	<ul> <li>System suitability charts should be</li> </ul>			
<b>10</b> 8	←	included.			
y & er er sts	4	• Should be stamped by stability testing site			
Assay (Folder products	Notes:				
As Fc		• Each time interval should be in a separate			
[d		*			
		pdf			



	<ul> <li>Should include validation of analytical procedures for assay of active ingredient(s), quantitation of impurities and related substances, and content ofpreservative(s) and/or antioxidant(s) (when applicable)</li> <li>Validation data in section P.5.3 in CTD /similar to that presented and approved by CADC</li> </ul>	V	V	V	√
5-Validation of analytical procedure	<ul> <li>CADC</li> <li>In case of new method applied in stability dossier differs than that in section p.5.3, complete method validation data should be submitted</li> <li>In case of variation of composition (additional of excipients /change of amount of excipients /grade s) complete validation required)</li> <li>In case of site transfer in variation (apply method transfer requirements according to USP 1224)</li> <li>In Case of Full Validation Data</li> <li>Complete validation of analytical procedures Should be conducted</li> <li>the following validation characteristics should be submitted: specificity, precision, linearity, accuracy, ruggedness and robustness</li> <li>Results for each validation parameter should be summarized in a tabulated form</li> <li>In case of analytical procedure used, found in a pharmacopoeia, verification of analytical procedures Should be conducted in which the following validation characteristics should be considered including: specificity, precision and Accuracy (as required in USP 1226)</li> <li>Verification is not necessary for compendial API assay method in S.4.3 (S-</li> </ul>				
	Part) • For Quantitative test (e.g.: individual and total degradation products) it should be ensured that the actual numerical results are provided rather than range statement such as within the limit or conform.				



#### **Notes:**

- Regarding stress conditions stability study, please apply conditions drastic enough to yield 10-30% degradation and fill Annex VII (TRS 929 annex 5)
- Reference and scientific evidence should be submitted for products found to be stable in stress conditions stability study
- If an officially recognized compendial method is used to control related substance that are not specified in the monograph, full validation of the method is expected with respect to those related substances.
- If an officially recognized compendial standard is claimed and an in house method is used in lieu of the compendial method e.g.: for assay or related compounds), equivalency of in house and compendial method should demonstrated this could be accomplished by performing duplicated analysis one sample by both methods and providing the results for the study.
- In case of stability method change or addition of new sections; method equivalency should be provided



Validation chromatograms (P.5.3)	<ul> <li>Should include chromatograms of validation of analytical procedures for assay of active ingredient(s), quantitation of impurities and related substances, and content of preservative(s)and/or antioxidant(s) (when applicable)/dissolution</li> <li>Should be stamped by stability testing site</li> <li>Should include the following:</li> <li>✓ For specificity: injections for samples stored under relevant stress conditions: light, heat, humidity, acid/base hydrolysis and oxidationare required in addition to placebo and blank injections</li> <li>✓ Minimum number of injections required for precision: 6 injections are required</li> <li>✓ Minimum number of injections required for linearity: 5 concentrations are recommended with 1 injection required for each concentration</li> <li>✓ Minimum number of injections required for accuracy: 3 concentrations are recommended with 3 injections required for each concentration</li> <li>✓ Minimum number of injections required for ruggedness: 3 injections are required for each random variation</li> <li>✓ For robustness: 3 injections are required for each small variation in methodparameters</li> <li>Notes:</li> <li>Each tested validation parameter should be in a separate pdf</li> <li>Charts for stress conditions stability study (Should be for each API separately) should be with acceptable resolution showing peaks of active and degradation products</li> <li>Chromatograms required for verification</li> <li>Chromatograms required for method transfer</li> </ul>				
Reference standard certificate	<ul> <li>Certificate of RS used in method of analysis (primary or secondary standard)</li> <li>As required in TRS 986/Annex 6</li> <li>Or as CTD assessment is sections S.5/P.6</li> </ul>	V	V	V	V



# **Stability File Content for Veterinary, Herbal and Biocides Pharmaceutical Products**

<u>I narmaceutical i roducts</u>						
	Description and	Veterinary	Herbal	Biocides		
Folder name	Description and requirements (if applicable)	Under-Registration Renewal / Re-registration Post approval (Var., License req., Stability approval)				
	Regulat	ory documents				
Preliminary approval for Registration with attached composition "if applicable"	for gistration with NA in case of variation / re-registration hed composition			on		
Naming Approval "if applicable"	(i.e. Herbal)	NA in case	e of variation / re-registration	on		
Approval for Re- registration and/ or transfer letter		NA in case of under- regApplicable in case of re-registration - Applicable in case of variation if reg. license is non- validation.				
Registration License and attached composition		NA in case of under-registration				
- Extension approval	(If needed)	Required in all cases (If needed)				
- CPP / free sale	with its attached SmPC (Summary of product characteristics) / Insert	Required in imported products				
EDA reports:	<ul> <li>Previous stability approval(s)         with its attachment(s)</li> <li>Recent Variation approval(s)         with its attachment(s)</li> <li>CAO Report of primary         batch(es) no. / type / order</li> <li>CADC final report (must be         for the submitted batch(es))         with its attachment(s)</li> <li>Quality approval with its         attached composition and FPS</li> </ul>	all available reports be ))				
Payment code / Receipt copy	Copy for payment receipt should be submitted If the file is submitted for the one of the following purposes: 1.shelf life extension 2.storage condition change 3.change in in-use of the product	Required in-case of change of: In-use / Storage conditions / Shelf life extension of the finished product from last stability approval /regis				
Stability study contract	- Annex for product name, strength and dosage form, and performed test(s)					

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Notice to applicant

- Both contract and annex	
must be legalized (bank	
signatures and EDA legal	
affairs)	
(Annex II) Submitted in case of proposed storage conditions at temperature (different storage form 30°C)	
Should be presented by Applicant company signed and stamped Submit justification for proposed temperature as Egypt is located in climatic zone IVA with reference	Applicable only in case of Herbal or veterinary
(Annex III)	Required
(Annex IV) Should be presented by Applicant company (signed and stamped) Should mention manufacturer of each Active ingredient entering in the manufacture of finished product Should mention finished Batch No. on which stability study is performed and country of origin Should state batch type (e.g.: R&D, pilot, production),	Required
<u>Technic</u>	cal Documents
Annex I	NA in case of biocides Herbal API: must to be written in details as the approved herbal registration) refer to annex I for more Details
**(Annex V)	Required  • (In case of Vet: should comply with VICH GL39 specifications, test procedures and acceptance criteria for new veterinary drug substance and new medicinal products; chemical substances.  • In Case of herbal:  1- It should comply with EDA guidelines for Registration of herbal pharmaceuticals  2- EMA Guidelines of specifications test procedures and acceptance criteria for herbal substances, herbal preparations,
	affairs) (Annex II) Submitted in case of proposed storage conditions at temperature (different storage form 30°C) Should be presented by Applicant company signed and stamped Submit justification for proposed temperature as Egypt is located in climatic zone IVA with reference  (Annex III)  (Annex IV) Should be presented by Applicant company (signed and stamped) Should mention manufacturer of each Active ingredient entering in the manufacture of finished product Should mention finished Batch No. on which stability study is performed and country of origin Should state batch type (e.g.: R&D, pilot, production),  Technic

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		products scientific guidelines In Case of Biocides: (Biocides -Antiseptics-Disinfectants) references
Certificate of analysis		Required Antiseptic effectiveness test is required in case of antiseptic
Method of analysis		Required
Stability study table(s)		Required
References + commitments	<ul> <li>Most updated monograph         for finished product         should be submitted "if             present "</li> <li>Pharmacopeia references         with highlighted limits (if             applicable)</li> </ul>	Required If applicable
Assay chromatograms		Required if applicable
Validation of analytical procedure		Required if applicable  -Declaration that these methods and their validations are the same submitted and approved by CADC if applicable
Validation chromatograms		Required if applicable
Reference standard certificate	<ul> <li>Certificate of RS used in method of analysis (primary or secondary standard)</li> <li>Standard in case of herbal</li> </ul>	Required
Calculation sheets	For all stability study intervals	Required in all cases



#### Annexes

Title	No.
Reviewing Composition	I
Commitment for Storage Conditions other than Zone IV in Storage Condition	II
Commitment for Responsibility/ "authenticity of data submitted"	III
Declaration of API	IV
Finished Product Specifications	V
Impurities ICH Calculations	VI
Stress Conditions Stability Study Results	VII
Stability Summary Table	VIII
Bracketing and Matrixing	IX
Stability Commitment	X

#### References TRS 986 annex 6

- Technical Report series 1010 Annex 10,2018
- Note for guidance on in-use stability testing of human medicinal products- EMA
- Guidelines for technical assessment of finished pharmaceutical products for human use files-EDA.
- ICH Q6A Specifications
- References (ICH HARMONISED TRIPARTITE GUIDELINE STABILITY TESTING OF NEW DRUG SUBSTANCES AND PRODUCTS Q1A(R2) ICH Q1D)



#### Annex I

#### **Composition Certificate**

Trade Name & Dosage form	This section to be filled by the Applicant company
--------------------------	--

The description of the finished product included a physical description, the proposed strength and dosage form is submitted.

#### Composition of the dosage form: (p.3.1)

Ingredient(s)	Amount/ Unit	Percentage % w/w or % w/v	Function	Reference (Compendial or In-house)
API				
Excipient				
Total weight / Volume				

**Applicant Company Signature, Date & Stamp:** 

#### Notes:

- 1- This template should be copied and submitted on Applicant Company letterhead.
- 2- API (s), it's (their) hydrate(s) and salt form(s) with its (their) quantity (ies) per unit dose is (are) specified.
- *3- Grades of excipient should be mentioned beside excipient name.*
- 4- Coat or Capsule Shell should be mentioned separate from the core or capsule content.
- 5- Weight of core tablet or content of capsule should be mentioned separately from total weight.
- 6- Solvents and Nitrogen Gas (its grade) used during manufacturing process: should be declared.
- 7- Composition of all components used as mixtures should be mentioned in details and submitted on supplier's Letterhead (e.g. Pellets, premixes, colorants, coatings, capsule shells and imprinting inks).
- 8- The Overage should be mentioned, and justification should be submitted on a separate document.
- 9- Reconstitution Solvents should be mentioned if present. (Not applicable for solvents with registration license).
- 10-In case of Pellets & Premix: composition on supplier letterhead should be attached. (template 4)
- 11-In case of presence of iso-tonicity agent, calculation for osmolality should be submitted
- 12-In Case of API equivalence (calculation of equivalence should be submitted)
- 13-In case of varying amount of API according to potency (equation for calculation should be stated in the footnote and the component which compensate change should be mentioned (template 4)

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# • Declaration states reference drug product used in developmental studies / BE approval

Applicant Company:	This section to be filled by the Applicant company	
Trade Name: This section to be filled by the Applicant company		
Generic Name(s) + Strength(s):	This section to be filled by the Applicant company	
Dosage Form:	This section to be filled by the Applicant company	

#### **Reference Product Details:**

Reference 11 value Details.				
Reference Drug Product				
Name, strength and dosage form of reference Product	This section to be filled by the Applicant company			
Name of MAH, Manufacturer	This section to be filled by the Applicant company			
and Country of origin				

#### **Applicant Company Signature, Date & Stamp:**

# • Calculation of Equivalent base of API/ Semi-Finished or Intermediate product -Quantity of pellets / Premix

<b>Applicant Company:</b>	This section to be filled by the Applicant company	
Trade Name:	This section to be filled by the Applicant company	
Generic Name(s) +	This section to be filled by the Applicant company	
Strength(s):		
Dosage Form:	This section to be filled by the Applicant company	

#### **Detailed Calculations should be provided:**

**Applicant Company Signature, Date & Stamp:** 

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#### **Annex II**

#### **Commitment for storage conditions**

# تعهد بظروف التخزين المقترحة

بالنسبة للمستحضر التي:

رئيس مجلس ادارة الشركة / مدير المكتب العلمي



# Commitment for Responsibility "Authenticity of Data Submitted"

•••••••	الخاصة بمستحضر	دراسة الثبات	بأنه قام بعمل		نع/مركز ثبات	یشهد مص
		على	دراسة مقدمة	کاملة و هذه د	نها مسئولية	و مسئول =

Batch Number	Batch Type	Study Type

التى تمت بمعرفة فريق العمل المكون من :

**Stamp:.....** 

#### **Annex IV**

Performed by (Q.C. Analyst):......... Checked by (Q.C. Head):......

Authorized by (Q.Assurance Head):.....

### **Declaration of API**

# Product Name, Dosage form, concentration (if applicable)

Batch Type	Batch No.	API	Manufacturer of API	Country of origin

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study dossier



### **Finished Product Specifications:**

Test/	Method	Acceptan	Acceptance criteria		rence
		Release specification	Shelf Specification	Analytical procedure	Acceptance criteria
Description					
Identification					
Impurities					
Assay					
etc.					

<sup>\*</sup>in case of difference between release and shelf specification, justification needed.

### **Annex VI**

### **Impurities ICH calculations**

Maximum daily dose for "API"	<x day="" mg=""></x>					
	Parameter	ICH threshold or concentration limit	Observed results			
Each Degradation product	Reporting Threshold					
	Identification Threshold					
	Qualification Threshold					

Maximum daily dose (i.e. the amount of API administered per day) for the API, corresponding ICH Reporting/Identification/Qualification Thresholds for the degradation products in the FPP

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study dossier



# Annex VII

# Stress conditions stability study results

Stress Type	Conditions /parameters used	Duration	Degradation %
Acidic			
Alkaline			
Oxidative			
Heating			
Light			
Photostability			
Others( Freeze/Thaw) cycles			

# **Annex VIII**

# **Stability Summary Table**

Test	Acceptance criteria	Min	Max	Significant Change*	Out of Specification (OOS)* Absent/present	Out of Trend (OOT)* Absent/present

<sup>\*</sup>If present a scientific justification should be justified

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#### Annex (IX)

#### **Bracketing & Matrixing**

Bracketing is defined as the design of a stability schedule such that only samples on the extremes of certain design factors, e.g., strength, package size, are tested at all-time points as in a full design. The design assumes that the stability of any intermediate levels is represented by the stability of the extremes tested. Where a range of strengths is to be tested, bracketing is applicable if the strengths are identical or very closely related in composition (e.g., for a tablet range made with different compression weights of a similar basic granulation, or a capsule range made by filling different plug fill weights of the same basic composition into different size capsule shells). Bracketing can be applied to different container sizes or different fills in the same container closure system

				Design	Example							
	Table: Example of a bracketing Design									Total=27		
	rable: Example of a bracketing Design								Tested=12			
Streng	th		50mg			75 mg			100 mg			
Batcl	ı	1	2	3	1	2	3	1	2	3		
	15ml	Т	Т	Т				Т	Т	Т		
Container Size	100 ml											
	500 ml	Т	Т	Т				T	Т	Т		
				Key: T=Sa	mple Test	ed						

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Matrixing is defined as the design of a stability schedule such that a selected subset of the total number of possible samples for all factor combinations is tested at a specified time point. At a subsequent time, point, another subset of samples for all factor combinations is tested. The design assumes that the stability of each subset of samples tested represents the stability of all samples at a given time point. The differences in the samples for the same drug product should be identified as, for example, covering different batches, different strengths, different sizes of the same container closure system, and, possibly in some cases, different container closure systems. \*In case of bracketing and Matrixing study design and tables should be included.

	Design Example									
	Table: Example of a Matrixing Design "One Third Reduction"								Total=48 1/3=16 Reduced=1	0
Tin	Time Point (months) 0 3 6 9 12					18	24	36		
		Batch 1	T	Т		T	T		Т	T
	<b>S1</b>	Batch 2	Т	T	Т		Т	Т		T
gth		Batch 3	T		T	T	T	T	T	T
Strength		Batch 1	T		T	Т	T	T	T	T
	S2	Batch 2	T	T		T	T		T	T
		Batch 3	T	T	T		T	T		T
				Key: 7	Γ=Sample ]	Tested				

	Design Example									
	Total=48 1/3=16 Reduced=10									
Tin	ne Point (m	onths)	0	3	6	9	12	18	24	36
	64	Batch 1	T	Т		T	Т		Т	T
	S1	Batch 2	Т	Т	Т		Т	Т		T
ч		Batch 3	T		T	T	Т	T	T	T
Strength		Batch 1	Т		Т	Т	Т	Т	Т	Т
	S2	Batch 2	Т	Т		Т	Т		Т	Т
		Batch 3	Т	Т	Т		Т	Т		Т
·	Key: T=Sample Tested									

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#### Annex (X)

# **Stability Commitment**

Post-approval Stability Protocol and Stability Commitment

#### For presentation to concerned authorities of the Arab Republic of Egypt

We <u>(Applicant)</u> as Marketing Authorization Holder of <u>(Product name)</u>, that is to be registered and marketed in Egypt, confirm the following recommended shelf life, storage conditions and container closure system for this product, based on the present knowledge confirmed by updated long-term stability studies:

Packaging material	Shelf-life	Storage conditions

We commit to -----

- The application of Stability Studies on Commercial scale Production batches and ongoing Stability studies following the same protocol used in primary batches stability concerning test items, acceptance criteria& frequency of testing.
- To complete the ongoing stability study for the product after finishing the long-term stability study of production batches
- To complete shelf study (12 and/ or 24 months) on the submitted pilot batches